

**KARNATAKANURSING&PARAMEDICALSCIENCESEDUCATION(REGULATION)AUTHORITY
PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IYEARDIPLOMA/II YEAR CERTIFICATE COURSE IN
MEDICALLABORATORYTECHNOLOGY(DMLT)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90**

**QP CODE: 2101
SECTION-A, ANATOMY**

Long Essay – (Answer Any One) 1 x 10 = 10

1. Classify Bones with examples. Describe Histology of Compact Bone. (6+4)
2. Name the parts of Female Reproductive System with a labelled diagram. Describe Uterus in brief. (5+5)

Short Notes (Answer Any Five) 5 x 5 = 25

3. Hyaline Cartilage
4. Right Lung
5. Right Atrium
6. Biceps Brachii Muscle
7. Thyroid Gland
8. Histology of Oesophagus
9. Eyeball

Short Answers 5 x 2 = 10

10. Name any two Muscles of Upper Limb
11. Name any four Cranial Nerves
12. Name any two Joints of Lower Limb
13. Name branches of Arch of Aorta
14. Name the Carpal Bones

**QP code- 2102
SECTION –B, PHYSIOLOGY**

Long Essay- Answer any ONE 1 x 10 = 10

15. List the various clotting factors. Explain the different pathways of coagulation (3+ 7)
16. Describe composition, functions and regulation of Gastric juice.(2+2+6)

Write Short notes on any FIVE 5 x 5 = 25

17. Hypoxia
18. Describe functions of skin
19. Female contraceptive methods
20. Abnormal Constituents of Urine
21. Cardiac output
22. Refractive errors and its correction
23. Actions of Growth hormone

Write short answers 5 x 2 = 10

24. Normal Value of 1) Heart rate 2) Respiratory rate
25. List hormones of Anterior pituitary
26. Define Tidal volume? Give its normal value
27. Three types of muscles
28. Name primary taste sensations

QP CODE: 5101

SECTION -A, ANATOMY

SHORT ANSWERS(ANSWER ANY FOUR)

4 X 5 = 20

1. Popliteus muscle
2. Describe kidney
3. Name the parts of digestive system. Explain stomach in detail
4. Describe heart
5. Classify joints with examples

SHORT NOTES

10 X 3 = 30

6. Name three types of Cartilages with examples
7. Name the muscles of front of arm
8. Mention the parts of small intestine
9. Contents of cubital fossa
10. Mention the male reproductive organs
11. Name the parts of nervous system
12. Coverings of brain
13. Name carpal bones
14. Mention three types of simple epithelium.
15. Mention Anatomical planes

QP CODE: 5102

SECTION -B, PHYSIOLOGY

WRITE SHORT NOTES (ANSWER ANY FOUR)

4 X 5 = 20

16. Explain the complications of mismatched blood transfusion
17. Write the types of Hypoxia and mention one condition in which each is seen
18. List the functions of Bile juice
19. List the tests of Pregnancy. Explain any one of them
20. Draw a neat labelled diagram of the Conducting system of the heart

WRITE SHORT ANSWERS (All questions)

10 X 3 = 30

21. Write the normal Erythrocyte count. Mention two causes of Anaemia
22. Draw a neat labelled diagram of a Sarcomere
23. Name the different compartments of body fluids
24. Write THREE functions of Thyroid hormones
25. Name any THREE sensory receptors
26. Define Glomerular Filtration rate. Write its normal value
27. Write the functions of middle ear
28. Write THREE functions of Skin
29. Name THREE hormones which regulate blood calcium level
30. Draw a neat labelled diagram of a NEPHRON

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IYEARDIPLOMA/II YEAR CERTIFICATE COURSE IN MEDICAL X-RAYTECHNOLOGY(DMXT)
TIME: 1.30Hrs (RS -1 SCHEME) MAX. MARKS: 45

QP CODE: 2121, GENERAL PHYSICS

LONG ESSAY – ANSWER ANY ONE **1x10=10**

- 1 Draw a neat labelled X-tube and write about production of x-rays. (5+5)
- 2 Define transformer with labelled diagram. Mention types of transformers and uses in production of x-rays. (4+4+2)

SHORT NOTES – ANSWER ANY FIVE **5 x5 = 25**

- 3 AC and DC current
- 4 Define law of conservation of energy with one example.
- 5 Capacitors and its uses
- 6 Write about Full wave rectification
- 7 Write about different forms of energy
- 8 Ammeter and voltmeter

SHORT ANSWERS **5 x 2 = 10**

- 9 Define Inverse square law
- 10 Define Ohms law and write unit.
- 11 Mention the ways of propagation of energy.
- 12 Self induction
- 13 Write about insulators

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEAR DIPLOMA IN MEDICAL IMAGING TECHNOLOGY(DMIT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 5121
RADIATION PHYSICS

SHORT NOTE- ANSWER ANY EIGHT

8X5=40

1. Construction of stationary anode X-Ray tube
2. Construction, merit and demerit of half wave rectifier
3. Explain with fig. The spectral distribution of X-ray emitted by an XRT
4. Photoelectric effect
5. Half life of a radioisotope
6. Working principle and applications of auto transformer
7. Working principle, merit and demerits of image intensifier
8. Explain how ultrasound scanner works
9. Describe production & properties of gamma rays
10. What are the effects of KVP and MAS on image quality

SHORT ANSWERS

20X3=60

11. Dicom
12. Compton effect
13. Valence shell
14. Discuss about T2 weighted image.
15. Geiger Muller counter
16. Space charge effect
17. Types of MRI machine
18. Cobalt therapy
19. Difference between ionizing and non-ionizing radiation
20. Beta emission
21. State the Ohms law with equation
22. State the importance of earthing of an electrical device
23. How do you classify materials based on their resistance
24. Cooling techniques used in X-ray tube
25. List the internal component of CT gantry
26. Thermionic emitter
27. Define matrix size, pixel & voxels
28. Coulomb's law
29. Secondary radiation
30. Focusing cup

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
IYEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN OPERATION THEATRE
TECHNOLOGY(DOTT)
TIME: 3Hrs (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 2131, FUNDAMENTAL OF OT & BASIC CONCEPTS IN SURGERY

LONG ESSAY – ANSWER ANY TWO

2X10 = 20

1. What is ambulatory surgical care? Describe in brief the intra operative, discharge and advantages of ambulatory surgery.
2. Discuss the role of OT technicians in day care surgery
3. Describe the types of wound healing. Describe the factors influencing wound healing.

WRITE SHORT NOTES ON ANY TEN

10X5=50

4. Methods of sterilization
5. Sterile team members
6. Surgical scrub
7. Various types of cautery and precautions in using cautery
8. Harmonic scalpel
9. Patients skin preparation
10. Check list
11. Wound dressing
12. Ryles tube
13. Fumigation
14. Suction device
15. Positions in surgery

WRITE SHORT ANSWERS

10X2=20

16. AMBU bag
17. Disinfection
18. Daily OT cleaning
19. Vacuum suction
20. Enema
21. Draping
22. Hospital waste management
23. Gowning
24. CPR
25. Gauze

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEARDIPLOMA IN OPERATION THEATRE & ANAESTHESIA TECHNOLOGY(DOT & AT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 5131, FUNDAMENTAL OF OT & BASIC CONCEPTS IN SURGERY

SHORT NOTES – ANSWER ANY EIGHT QUESTIONS

8X5=40

1. Preoperative role of nursing
2. Biomedical waste management
3. Sterile team members
4. Electrical hazards and it precautions
5. Room clean up procedure after surgery
6. Methods of Haemostasis
7. Preparation of operative site and draping
8. Mechanism of wound healing
9. Ambulatory surgery
10. Checklist of patient before surgery

SHORT ANSWERS

20X3=60

11. CPR
12. Gowning and gloving
13. Nasogastric intubation
14. IV cannulation
15. Fluid management
16. Pulse oximeter
17. Spinal anaesthesia
18. Suture materials
19. Supply of gases
20. Surgical needles
21. Sources of contaminations
22. Physical facilities at operation theatre
23. Electrical Cautery
24. Surgical scrubs
25. Criteria for positioning
26. Preoperative care
27. Principles of Sterilization
28. Catheterization
29. Harmonic scalpel
30. Appendectomy

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IYEARDIPLOMA/II YEAR CERTIFICATE COURSE IN MEDICAL RECORD
TECHNOLOGY(DMRT)
TIME: 3Hrs (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 2141, MEDICAL RECORD SCIENCE

LONG ESSAY-ANSWER ANY TWO

2X10=20

1. Briefly write the History of Medical Records?
2. Duties and responsibility of MRO, AMRO and MRT? Explain
3. Medical Records is Legal Documents. How to you prove? What are the benefits in public side give example?

WRITE SHORT NOTES ON ANY TEN

10x5=50

4. Explain Bailable and Non Bailable Offences?
5. Why take the Consent? Write what types of Consent take in Medical Records?
6. What is Assembling and Deficiency Check list? Explain
7. Retention and Shredding procedure of Medical Records?
8. Functions of OP and IP Registration counters.
9. Characteristics of Medical Records?
10. Forms Control Programme.
11. What types of Certificate Issued in Medical Records Department?
12. Explain briefly role of Medical Records in Quality Care reviews ?
13. What is HIMS? Explain.
14. What is e-Janma. How to provide the Birth and Death Certificates in this Software?
15. Briefly write the Medico Legal Section Procedures?

WRITE SHORT ANSWERS

10X2=20

16. Public Officer
17. UHID
18. Plaintiff
19. Bed Occupancy Rate
20. Decree Holder
21. Name correction procedure
22. Contents of Medical Records
23. Tracer Card
24. Mid Night Census
25. Documentary Evidence.

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEAR DIPLOMAIN MEDICAL RECORD TECHNOLOGY(DMRT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 5141, MEDICAL RECORD SCIENCE

NOTE: Answer the questions in order

SHORT NOTES – ANSWER ANY EIGHT

8X5=40

1. Write the function of Medical Record Committee
2. Duties and responsibilities of central admitting staff
3. Define burden of proof, when does burden of proof shifted to the accused
4. Explain the advantages and disadvantages of Unit numbering system
5. Write any two definition of Medical Records
6. Effects for non production of documents
7. What is dying declaration and its importance
8. Interdepartmental relationship
9. Discharge and acquittal
10. Personal and impersonal document

SHORT ANSWERS

20X3=60

11. Privileged communication
12. Quantitative analysis
13. Basic Medical Records forms
14. Types of registers maintained in the MRD
15. Deficiency check
16. Admission & confession
17. Hospital statistics
18. Internal Audit
19. Value of Medical Records to patient
20. Arrest Warrant
21. Discharge summary
22. Write the formula of percentage of bed occupancy and average length of stay
23. Medical certification of cause of death
24. The role of diagnostic Index card
25. Legal representative
26. Contests of Accident Register
27. High risk consent
28. Exemption from personal appearance under CrPC
29. Duties and responsibilities of admission clerk
30. Patient will

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IYEARDIPLOMA/II YEAR CERTIFICATE COURSE IN DIALYSIS TECHNOLOGY(DDT)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 2151

SECTION A: PHARMACOLOGY

LONG ESSAY-ANSWER ANYONE

1 x 10 =10

1. Name six parental route of drug administration with examples. Mention three advantages and disadvantages of intramuscular route.
2. Name SIX drugs used in treatment of malaria infection. Mention the mechanism of action, TWO adverse effects and TWO uses of chloroquine.

WRITE SHORT NOTES ON ANY FIVE

5 x 5 = 25

3. Name five uses and five adverse effects of glucocorticoids
4. Oral contraceptives
5. Name four NSAIDS and write two uses and two adverse effects of aspirin
6. Name five uses of diazepam
7. Spinal anesthesia
8. Ferrous sulphate

WRITE SHORT ANSWERS

5 x 2 = 10

9. Define drug
10. Name four flavoring agents
11. Name four antiseptics
12. (a) Name antidote for iron poisoning (b) Name deficiency disease of vitamin c
13. Name four salfonamides

QP CODE: 2152

SECTION B: THEORY OF DIALYSIS

LONG QUESTIONS (ANSWER ANY ONE)

10x1=10

14. Dialysis system add a note on anatomy and physiology of artificial kidney.
15. Define Haemodialysis. Brief about assessments of adequacy of dialysis.

SHORT NOTES : (ANSWER ANY FIVE)

5X5=25

16. Renal failure.
17. Body fluid composition.
18. Dialysers.
19. Complications associated with dialysis.
20. Access for dialysis or to the circulation.
21. CAPD Catheter.

SHORT ANSWERS:

2X5=10

22. Water analysis.
23. Heparin.
24. Wearable artificial kidney.
25. Reverse osmosis/RO
26. Common investigations before dialysis.

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TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 5151

SECTION A: APPLIED PHARMACOLOGY

SHORT NOTES- ANSWER ANY FOUR

4 X 5 = 20

1. Mention 3 parenteral routes of drug administration; write the advantages and disadvantages of intra venous route of drug administration
2. Write the uses and adverse effects of Lignocaine
3. Write the uses and adverse effects of Heparin
4. Write the uses and adverse effects of Aminoglycosides.
5. Mention the uses and adverse effects of Furosemide

SHORT ANSWERS

10 X3 = 30

6. Mention 3 drugs obtained from microorganisms
7. Define the terms; drug synergism and drug antagonism
8. Mention 3 opioid analgesics and write its 3 uses
9. Write 3 uses and side effects of Hydrocortisone
10. Mention 3 antiseptics and write their 3 uses
11. Mention 3 anti-emetics
12. Write three differences between crystalloids and colloids
13. Name 3 parenteral iron preparations
14. Mention 3 drugs used orally to treat Diabetes Mellitus.
15. Name 3 drugs used in treatment of Gastric ulcers.

QP CODE: 5152

SECTION B: THEORY OF DIALYSIS

SHORT NOTES – ANSWER ANY FOUR

4x5=20

16. Write short notes on diffusion, osmosis, ultrafiltration and reverse osmosis.
17. Write a short note on Acute Renal Failure and its stages.
18. Elaborate the excretory functions of Normal Kidney.
19. Write a short note on Chemical contaminants in water.
20. Describe different types of heparinization techniques used in hemodialysis

SHORT ANSWERS

10x3= 30

21. Acetate vs bicarbonate dialysate
22. Complications of heparin therapy
23. Dialysis Disequilibrium Syndrome
24. Solute drag
25. Draw Dialyzer parts with labelling
26. Steal Syndrome
27. Types of reuse systems in hemodialysis
28. AVF
29. Contraindication for hemodialysis
30. KUF

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
I YEARDIPLOMA/II YEAR CERTIFICATE COURSE IN OPHTHALMIC TECHNOLOGY(DOT)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 2161, OPHTHALMOLOGY-1

LONG ESSAY – ANSWER ANY TWO

2 x 10 = 20

- 1) Hypermetropia- types, diagnosis and its correction.
- 2) Types of transposition of lenses- discuss the uses of transposition.
- 3) Describe the various methods of subjective verification of refraction.

WRITE SHORT NOTES ON ANY TEN

10 x 5 = 50

- 4) Laws of reflection
- 5) Uses of lens in ophthalmology
- 6) Neutralization of spectacle lenses
- 7) Advantages and disadvantages of spectacles and contact lenses
- 8) Define ametropia
- 9) Importance of measurement of IPD
- 10) Keratometry and its uses
- 11) Image formation by convex mirror
- 12) Total internal reflection
- 13) Indications for cycloplegia in refraction
- 14) Compare symptoms of hypermetropia with myopia
- 15) Bifocal glasses

Write short answers

10 x 2 =20

- 16) Layers of cornea
- 17) 3 stages of retinoscopy
- 18) Stenopic slit
- 19) Snell's law
- 20) Types of astigmatism
- 21) Various tests for colour vision
- 22) Contraindications for contact lens wear
- 23) Eye index lenses
- 24) Pinhole
- 25) Materials used for the manufacture of spectacle lenses

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IIYEARDIPLOMA IN OPHTHALMIC TECHNOLOGY(DOT)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 5161, OPHTHALMOLOGY-1

SHORT NOTES – ANSWER ANY EIGHT

(8x5=40)

1. Describe the principle of Snellens chart.
2. Cranial nerves of the eye.
3. Enumerate layers of retina.
4. Short note on extra ocular muscles and their innervations.
5. Write short note on different visual perceptions.
6. Write briefly on production and drainage of tears.
7. Mention advantages and disadvantages of RGP lens.
8. Finger confrontation test for visual field.
9. Mention various tests for binocular single vision.
10. Management of astigmatism.

SHORT ANSWERS

(20x3=60)

11. Anisometropia.
12. Stereopsis.
13. Cosmetic contact lens .
14. Transposition of lenses..
15. Pathological myopia.
16. Pin hole test.
17. Presbyopia.
18. Toric lens.
19. Metal frames.
20. Anomalies of accommodation.
21. Convergence.
22. Lantern test.
23. Role of cycloplegics in refraction.
24. Trial lenses and accessories.
25. Aqueous humour dynamics .
26. Anatomy of crystalline lens.
27. Duochrome test.
28. Inter Pupillary Distance.
29. Field of vision.
30. PMT.

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
IYEARDIPLOMA/ II YEAR CERTIFICATE COURSE IN DENTAL MECHANICS(DDM)
TIME: 1Hrs30Mins (RS -1 SCHEME) MAX. MARKS: 45**

QP CODE:2171, DENTAL MATERIALS & METALLURGY

LONG ESSAY- ANSWER ANY ONE

1 X 10 = 10

- 1) What is an alloy? Mention the various alloys used in prosthodontics. Write in brief about base metal alloys.
- 2) Classify gypsum products and describe in detail about type II gypsum product.

WRITE SHORT NOTES ON ANY FIVE

5 X 5 = 25

- 3) Annealing and tempering
- 4) Properties of heat cure acrylic resin.
- 5) Reversible hydrocolloid
- 6) Uses of zinc phosphate cement
- 7) Types of stainless steel
- 8) Soldering and welding
- 9) Addition silicon impression material

WRITE SHORT ANSWERS

5 X 2 = 10

- 10) Electroplating
- 11) Nickel Chromium alloys
- 12) Niti wires
- 13) Divestment
- 14) Soldering

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IIYEARDIPLOMA IN DENTAL MECHANICS (DDM)
TIME: 1Hrs30Mins (RS -2 SCHEME) MAX. MARKS: 50

QP CODE:5171, DENTAL MATERIALS& METALLURGY

Short Notes, Answer Any Four Questions

4x5 = 20

- 1) Classify dental investment materials and write about phosphate bonded investment.
- 2) Casting Defects
- 3) Difference between self-cure and heat cure acrylic resin
- 4) Dental waxes
- 5) Base Metal alloys

Short Answers

10x3 = 30

- 6) Type II Gypsum
- 7) Properties of heat cure acrylic resin.
- 8) Reversible hydrocolloid
- 9) Uses of zinc phosphate cement
- 10) Types of stainless steel
- 11) Soldering and welding
- 12) Polyether impression material
- 13) Dust free alginate
- 14) 18-8 Stainless steel
- 15) Impression compound

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IYEARDIPLOMA/II YEAR CERTIFICATE COURSE IN DENTALHYGIENE(DDH)
TIME: 1 Hrs 30Mins (RS -1 SCHEME) MAX. MARKS: 45

QP CODE:2181

SECTION A: GENERAL ANATOMY & HISTOLOGY

Long Essay (Answer any one) **1 x 9 = 09**

1. Describe Temporo Mandibular Joint under the following heading:
(a) Type of Joint, (b) Bones Forming, (c) Movements, (d) Applied Aspects.
2. Describe Facial Nerve

Short Notes (Answer any two) **2 x 5 = 10**

3. Maxillary Artery
4. Tongue
5. Histology of Parotid Salivary Gland

Short Answers **3 x 2 = 06**

6. Name Muscles of Mastication
7. Name the Basic Tissues in the Body
8. Dental Formula

QP CODE:2182

SECTION B: GENERAL PHYSIOLOGY

Write Short notes on any four **4 x 4 =16**

9. Composition and Functions of Saliva
10. Refractive errors
11. Hypoxia
12. Deglutition
13. Anticoagulants
14. Cardiac output

Write short answers **2 x 2 =4**

15. Neat labelled diagram of ECG
16. Functions of Middle ear

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II YEARDIPLOMAIN DENTAL HYGIENE (DDH)
TIME: 1 Hrs 30Mins (RS -2 SCHEME) MAX. MARKS: 50

QP CODE:5181

SECTION A: GENERAL ANATOMY & HISTOLOGY

SHORT ANSWERS(ANSWER ANY TWO)

2X 5 = 10

1. Pituitary gland
2. Blood supply of face
3. Muscles of tongue

SHORT NOTES

5X3 = 15

4. Name the types of teeth
5. Functions of pancreas
6. Mandible
7. Name the muscles of mastication
8. Dangerous area of face

QP CODE:5182

SECTION B: GENERAL PHYSIOLOGY

WRITE SHORT NOTES(ANSWER ANY TWO)

2X5 = 10

9. Classify White blood cells. Write their functions
10. Draw neat labelled diagram of conducting system of the heart
11. Explain the actions of Parathyroid hormone

WRITE SHORT ANSWERS

5X3 = 15

12. List the functions of Cell membrane
13. Name the types of movements of gastrointestinal tract
14. Name the different types of muscles
15. List the functions of lungs
16. Draw a neat labelled diagram of Taste bud

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
IYEAR DIPLOMA IN PHYSIOTHERAPY (DPT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE:4191, ANATOMY

Short Notes (Answer any eight)

8 X 5 = 40

1. Diaphragm
2. Pleura
3. Hip joint
4. Structures under the cover of Gluteal muscle
5. Stomach
6. First carpometacarpal joint
7. Lymphatic drainage of Breast
8. Cubital fossa
9. Pectoral girdle
10. Urinary bladder

Short Answers

20 X 3 = 60

11. Linea aspera
12. Name the parts of Pancreas
13. Nerve supply of Tongue
14. Name the Flexors of forearm
15. Name the contents of Femoral triangle
16. Name the parts of Mediastinum
17. Sesamoid bone
18. Nerve supply of foot
19. Classification of joints
20. Draw a neat labelled diagram of Ventricles of Brain
21. Name the parts of Corpus callosum
22. Draw a neat labelled diagram of Blood supply of thyroid gland
23. Name the parts of Urethra
24. Mention the blood supply of Brain
25. Motor speech area
26. Name the layers of Retina
27. Classification of Connective tissue
28. Great saphenous vein
29. Name the structures in the Hilum of right Lung
30. Name the ligaments of Liver

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IIIYEARDIPLOMAIN PHYSIOTHERAPY (DPT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE:6191

SECTION A: P.T IN MEDICAL CONDITIONS

SHORT NOTES – ANSWER ANY FOUR **(4x5=20)**

1. Discuss the physiotherapy management of 60 years old women with hemiplegia.
2. Indication for cardiac rehab, explain cardiac rehab programme of phase I after MI.
3. Discuss types and methods of breathing exercise.
4. PT management of muscular dystrophy.
5. PT management of 35 years old with head injury.

SHORT ANSWERS **(10x3=30)**

6. Bell's palsy
7. Gowers sign and management
8. Median claw hand
9. Bronchiectasis
10. Chondromalacia patella
11. Hyperhydrosis
12. APGAR score
13. Reynaud's disease
14. LMN Lesion
15. PT management in Rheumatoid Arthritis

QP CODE: 6192

SECTIONB: P.T IN SURGICAL CONDITIONS

SHORT NOTES – ANSWER ANY FOUR **(4x5=20)**

16. Discuss in detail about cardiac rehabilitation programme
17. Describe post-operative physiotherapy management of hysterectomy.
18. What do you mean by respiratory failure? Write its causes, clinical features and treatment.
19. PT management in ICU.
20. Describe the Phase I cardiac rehabilitation.

SHORT ANSWERS **(10x3=30)**

21. Surgical Emphysema.
22. GB Syndrome.
23. Ulnar Tunnel Syndrome.
24. Carpel tunnel syndrome
25. Ilizarov fixator
26. Prévention of Bed Sores.
27. Colles fracture
28. Dyskinesia.
29. Crush injury.
30. Stress incontinence.

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IYEARDIPLOMA/II YEAR CERTIFICATE COURSE IN
MEDICALLABORATORYTECHNOLOGY(DMLT)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 2103, BIOCHEMISTRY

Long Essay (Answer any two)

2X10=20

1. Define Carbohydrates. Classify them with suitable example.
2. What are isoenzymes? Give examples with its clinical significance.
3. Discuss principle and working of photoelectric colorimeter.

Short Essay (Answer any ten)

10X5=50

4. Structure of atom
5. Types of balances in laboratory and care.
6. Dry chemistry analyzer
7. Laboratory hazards.
8. Functions of calcium
9. Flame photometer
10. Define buffers and Indicators with examples.
11. What is titration? Explain with example.
12. What is standard solution? Write different types of standards.
13. Define Lipids. Write its functions.
14. Functional classification of proteins.
15. Write the classifications of enzymes.

Short answer

10X2=20

16. Name the non-reducing sugars.
17. Benedict's test
18. Name any two volumetric glasswares.
19. Give two examples of aromatic compounds.
20. What is percentage solution?
21. Define a. Molarity b. Normality
22. Define pH.
23. Equivalent weight
24. Atomic weight
25. Derived proteins.

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEARDIPLOMA IN MEDICAL LABORATORY TECHNOLOGY(DMLT)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 5103, BIOCHEMISTRY

SHORTNOTES:ANSWERANYEIGHT

8x5=40

1. Explain the principle and components of colorimeter. Write about Beer Lambert's law.
2. Write about the components of lipid profile with normal reference range. Add a note on significance of LDL.
3. Classify carbohydrates. Add a note on lactose intolerance.
4. Classify aminoacids with examples.
5. Explain in detail about the factors affecting enzyme activity.
6. Write about the sources, RDA and deficiency disorders of vitaminD
7. With the help of a neat labelled diagram explain the types of weighing balances.
8. Write about phlebotomy, specimen collection, storage, transport and disposal of needles.
9. What are centrifuges? Mention the types and uses of centrifuges
10. What are nucleosides and nucleotides? Give examples

SHORTANSWERS

20x3=60

11. Write briefly about anticoagulants
12. Reference values
13. Plasma proteins
14. Uses of incubators
15. Liver enzymes of diagnostic importance
16. Water bath
17. Isoenzymes
18. Transamination
19. Internal quality control
20. Structure of DNA
21. Normal constituents of urine
22. Cap color code of blood collection tube for estimation of :
a) Glucose, b) glycated hemoglobin & c) Bilirubin
23. Define pH. Mention the uses of pH meter
24. List three electrolytes with normal serum values.
25. Mention three functions of vitamin A
26. Different types of pipettes
27. Functions of calcium
28. Scurvy
29. Essential Amino acids
30. Normal values of Urea, creatinine & Uric acid in blood

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IYEARDIPLOMA/II YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR (DHI)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 2111, COMMUNITY MEDICINE PAPER-1

LONG ESSAY-ANSWER ANY TWO **2x10=20**

- 1 Define family. Write in detail the types of family. Role of family in health and diseases (1+4+5)
- 2 Write a neat diagram of lungs. write the function of lungs
- 3 Define health. add a note on Concepts of health.

SHORT NOTES ANSWER ANY TEN **10x5=50**

- 4 Classification of socioeconomic status
- 5 Write social factors influencing health.
- 6 Job responsibilities of Medico Social Worker.
- 7 What is Iceberg Phenomenon? Explain with an Example.
- 8 Difference between developed and developing countries
- 9 Mental dimension of health
- 10 Write about primary prevention with examples
- 11 Functions of thyroid gland
- 12 Explain food habits related to diseases
- 13 Acculturation
- 14 Name different parts of brain. add a note on function of brain
- 15 Classification of socioeconomic status

SHORT ANSWERS **10x2=20**

- 16 Types of learning.
- 17 Give three examples of specific protection
- 18 Two examples for mass treatment
- 19 Define community.
- 20 Motivation
- 21 Name 3 social problems
- 22 Define anthropology
- 23 Overcrowding
- 24 Food taboos with 3 examples
- 25 Mention four risk factors for CVD.

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIEARDIPLOMA IN HEALTH INSPECTOR (DHI)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100
QP CODE: 5111, COMMUNITY MEDICINE PAPER-1

SHORT NOTE- ANSWER ANY EIGHT

8X5=40

1. Mortality Indicators – Explain each one in brief.
2. Health Team Concept.
3. Structure and Functions of the Heart.
4. Risk factors of Diseases.
5. Physical Quality of Life Index(PQLI)
6. Discuss the Social Problems in a Community.
7. Consumer Protection Act.
8. Define Social Security. Write different Social Security measures for Industrial Workers.
9. Write in detail about Problem Families
10. Discuss about the Dowry System in India and its Preventive measures.

SHORT ANSWERS

20X3=60

11. Levels of Health Care.
12. Functions of the Lungs
13. Urban Health.
14. Special Sense Organs.
15. Rehabilitation.
16. Blood groups.
17. Epidemiological triad.
18. Disease Eradication.
19. Levels of Prevention.
20. Functions of the Stomach.
21. Three generation Family.
22. Customs.
23. Rural Society.
24. Social Institution.
25. Doctor – Patient relationship.
26. Medico – Social Worker.
27. Rehabilitation services for the Handicapped.
28. Define Disease.
29. Delinquency.
30. Define Community.

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IYEARDIPLOMA/II YEAR CERTIFICATE COURSE IN MEDICAL X-RAY TECHNOLOGY(DMXT)
TIME: 1Hrs 30 Mins (RS -1 SCHEME) MAX. MARKS: 45**

QP CODE: 2122, ANATOMY

LONG ESSAY (ANSWER ANY TWO)

2 X 10 = 20

1. Classify Joints with examples. Describe Synovial Joints. (5+5)
2. Name the parts of Respiratory System with a labelled diagram. Describe Lungs in brief. (5+5)
3. Name the parts of Female Reproductive System with a labelled diagram. Describe Ovary in brief. (5+5)

SHORT NOTES (ANSWER ANY THREE)

3 X 5 = 15

4. Shoulder Joint
5. Right Atrium
6. Para Nasal Air Sinuses
7. Tongue

SHORT ANSWERS

5 X 2 = 10

8. Name the types of Bones
9. Write two differences between Large Intestine and Small Intestine
10. Bones forming Hip Joints
11. Name the Carpal bones
12. Name any four Cranial Nerves

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEARDIPLOMA IN MEDICAL IMAGING TECHNOLOGY(DMIT)
TIME: 1Hrs 30 Mins (RS -2 SCHEME) MAX. MARKS: 50

QP CODE: 5123, ANATOMY

SHORT NOTE- ANSWER ANY FOUR

4 X 5 = 20

1. Hip joint
2. Classify bones with examples.
3. Lungs
4. Kidney
5. Muscle tissue

SHORTANSWER

10 X3 = 30

6. Scapula
7. Carpal bones
8. Salivary glands
9. Anatomical Positions
10. Bone (connective tissue)
11. Testis
12. Tendon
13. Femur
- 14 Aorta and its parts.
- 15 Parts of CNS

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
I YEARDIPLOMA/II YEAR CERTIFICATE COURSE IN OPERATION THEATRE TECHNOLOGY(DOTT)
TIME: 3Hrs (RS -1 SCHEME) MAX. MARKS: 90
QP CODE: 2132, SECTION A: BIOCHEMISTRY

LONG ESSAY (ANSWER ANY TWO)

1X10=10

1. Describe the digestion and absorption of carbohydrates.
2. Give an account on formation of urea.

SHORT ESSAY (ANSWER ANY TWO)

2X5=10

3. Factors maintaining blood pH.
4. Explain theory of ionization.
5. Define blood buffers with examples.

SHORT ANSWER

5X2=10

6. Specific urease test.
7. Heat coagulation test
8. Define acids and salts with example.
9. What are electrolytes? Give examples.
10. What are NPS substances? Give examples.

QP CODE: 2133, SECTION B: PHARMACOLOGY

ANSWER ANY ONE

1X10=10.

11. Name SIX antitubercular drugs. Mention TWO uses, TWO adverse effects and TWO drug interactions of Rifampin.
12. Name SIX general anaesthetics. Describe drugs used in general anaesthetic medications.

WRITE SHORT NOTES OF ANY TWO.

2X5=10.

13. Intra-muscular route of drug administration.
14. Teratogenicity.
15. Tetracyclines.

WRITE SHORT ANSWERS.

5X2=10.

16. Name TWO antiviral drugs.
17. Name TWO antihelminthic drugs.
18. Name TWO macrolide antibiotics.
19. Name TWO Antileprotic drugs.
20. Name TWO NSAIDs.

QP CODE: 2134, SECTION C: MICROBIOLOGY

ANSWER ANY ONE

1X10=10

21. Define and classify Immunity. Describe in detail acquired immunity. (2+2+6)
22. Define and classify sterilisation. Discuss moist heat methods of sterilisation. (2+3+5)

WRITE SHORT NOTES ON ANY TWO

2X5=10

23. Standards of air quality in the operation theatre
24. Nosocomial infections
25. Anaphylaxis

WRITE SHORT ANSWERS

5X2=10

26. Joseph Lister
27. Cold sterilisation
28. Draw a neat labelled diagram of Hepatitis B Virus
29. Name four Gram negative bacteria
30. Name two DNA viruses

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIEYARDIPLOMA IN OPERATION THEATRE& ANAESTHESIA TECHNOLOGY(DOT& AT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 5133, SECTION A: BIOCHEMISTRY

SHORT ESSAY – ANSWER ANY FIVE **5x5=25**

1. Define lipids. Classify lipids.
2. Classify proteins with examples.
3. Explain the factors affecting the enzyme activity.
4. What are nucleosides and nucleotides? Give two examples for each
5. What are polysaccharides? Explain with examples.
6. Define Jaundice. Mention its types.

SHORT NOTES **5x3=15**

7. Define buffers. Give examples.
8. Mention three functions of Vitamin A
9. Mention three functions of Calcium
10. Name any three methods of estimation of blood glucose.
11. Creatinine clearance test

QP CODE: 5134, SECTION B: APPLIED PHARMACOLOGY

SHORT NOTES- ANSWER ANY THREE **3 X 5 = 15**

12. Classify routes of drug administration; write the advantages and disadvantages of Intra venous route of drug administration
13. Classify Intra venous general anaesthetics; write 2 advantages and disadvantages of Ketamine
14. Write the use and adverse effects of Morphine
15. Write the uses and adverse effects of ciprofloxacin.

SHORT ANSWERS 5 X 3 = 15

16. Name 3 drugs obtained from Animals
17. Mention 3 NSAIDs and write the uses of Paracetamol.
18. Name 3 inhalational general anaesthetics
19. Mention 3 uses of hydrocortisone.
20. Mention 3 uses of Metoclopramide.

QP CODE: 5135, SECTION C: MICROBIOLOGY

SHORT ESSAY – ANSWER ANY THREE **3x5=15**

21. Contributions of Louis Pasteur
22. Autoclave
23. Labelled diagram of bacterial cell
24. Laboratory diagnosis of Tuberculosis

SHORT NOTES **5x3=15**

25. Universal precautions
26. Name 3 Viruses
27. Staphylococcus
28. Organisms causing diarrhea
29. Passive immunity

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IYEARDIPLOMA/II YEAR CERTIFICATE COURSE IN MEDICAL RECORDS TECHNOLOGY(DMRT)
TIME: 3Hrs (RS -1 SCHEME) MAX. MARKS: 90
QP CODE: 2142, SECTION A: ANATOMY**

LONG ESSAY (ANSWER ANY ONE)

1 X 10 = 10

1. Name the parts of Respiratory System with a labelled diagram. Describe Lungs in brief. (5+5)
2. Name the parts of Female Reproductive System with a labelled diagram. Describe Uterus in brief. (5+5)

SHORT NOTES (ANSWER ANY TWO)

2 X 5 = 10

3. Thyroid Gland
4. Liver
5. Classification of Joints

SHORT ANSWERS

5 X 2 = 10

6. Name four Cranial Nerves
7. Name the Tarsal Bones
8. Name two Veins of Lower Limb
9. Name the Ear Ossicles
10. Name the parts of Stomach

QP CODE: 2143, SECTION B: PHYSIOLOGY

WRITE SHORT NOTES ON ANY FOUR

4 x 5 = 20

11. Refractive errors and their correction
12. Plasma Proteins
13. Hypoxia
14. Cardiac output
15. Family planning methods

WRITE SHORT ANSWERS

5 x 2 = 10

16. List hormones of anterior pituitary
17. Functions of Saliva
18. Normal count of a) RBC b) WBC
19. Pregnancy tests
20. Functions of Cerebellum

QP CODE: 2144, SECTION C: PATHOLOGY & MICROBIOLOGY

LONG ESSAY(ANSWER ANY ONE)

1X10=10

21. What are various investigations done in pathology?
22. Explain record keeping in Microbiology.

SHORT ESSAY (ANSWER ANY TWO)

2X5=10

23. Malaria- cause and the tests done
24. Gram stain
25. Tests done on Urine

SHORT ANSWERS

5X2=10

26. Name TWO diseases caused by virus
27. Name TWO infections caused by Streptococcal organism
28. Name TWO diseases caused by Fungus
29. Name TWO Gram negative organisms
30. Name TWO tests done in Tuberculosis

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEARDIPLOMA IN MEDICAL RECORDS TECHNOLOGY(DMRT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 5143, SECTION A: ANATOMY

SHORT NOTE ANSWER ANY TWO

2X 5 = 10

- 1 Write briefly about liver
- 2.Pons
3. Adrenal glands

SHORT ANSWER

10 X3 = 30

4. Name three arteries of upperlimb
5. Tonsil
6. Humerus bone
7. Popliteal fossa –contents
- 8.Uterus
9. Larynx –cartilages
10. Draw a neat labelled diagram of Eyeball
11. Openings of diaphragm
12. Draw a neat labelled diagram of Neuron
13. Name any six cranial nerves

QP CODE: 5144, SECTION B: PHYSIOLOGY

WRITE SHORT NOTES (ANSWER ANY THREE QUESTIONS)

3 X 5 = 15

14. Name the different blood groups. What is the importance of knowing blood group of a person?
15. Explain the functions of Bile juice
16. Define Hypoxia. List the different types of Hypoxia
17. List the types of Muscle. Write THREE differences between them

WRITE SHORT ANSWERS

5 X 3 = 15

18. Name the different compartments of body fluids
19. Define Stroke volume. Give normal value
- 20 Define Dead space volume. Give its normal value
21. List three Functions of Placenta
22. List the parts of a NEPHRON

QP CODE: 5145, SECTION C: PATHOLOGY & MICROBIOLOGY

SHORT ESSAY – ANSWER ANY THREE

3x5=15

23. Importance of Record maintenance in Microbiology.
24. List different serological investigations done in Microbiology.
25. List 5 bacterial diseases in humans.
26. List 5 Viral diseases in humans.

SHORT NOTES

5x3=15

27. Name 3 Gram positive bacilli.
28. Name any 3 viruses.
29. Name any 3 fungi causing infection.
30. Name 3 diseases affecting lung.
31. Covid-19.

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEAR DIPLOMA IN DIALYSIS TECHNOLOGY(DDT)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 5153 SECTION A: BIOCHEMISTRY

SHORT NOTES – ANSWER ANY FOUR **4x5=20**

1. Explain the principle and components of colorimeter. Write about Beer Lambert's law
2. Define carbohydrates. Classify carbohydrates.
3. Explain the role of kidney in maintaining acid base balance.
4. What are isoenzymes? Explain two isoenzymes of clinical importance.
5. Classify vitamins. Mention the deficiency disorders of vitamin A, D and Vitamin C

SHORT ANSWERS **10x3=30**

6. Creatinine clearance test
7. Mention the normal range of the following electrolytes in serum
a) Sodium b) Potassium c) Chloride
8. What are essential amino acids? Name them
9. Metabolic Acidosis
10. Lipid profile.
11. Name the purine and pyrimidine bases.
12. Mention the normal organic and inorganic constituents of urine.
13. Components of RO plant.
14. Define Jaundice. Mention the types of jaundice.
15. Enzymes elevated in liver diseases.

QP CODE: 5154 SECTION B: MICROBIOLOGY

SHORT NOTES – ANSWER ANY FOUR **4x5=20**

16. Koch's postulates
17. Hot air oven
18. Sterility testing
19. Type IV hypersensitivity
20. Passive immunity

SHORT ANSWERS **10x3=30**

21. Universal precautions
22. Steps in infections control in hospitals
23. E.coli
24. HIV
25. Name 3 capsulated bacteria
26. Name 3 viruses
27. Name 3 diseases caused by streptococci
28. Flagella
29. Candida
30. Bacterial filters

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
I YEARDIPLOMA/II YEAR CERTIFICATE COURSE IN OPHTHALMIC TECHNOLOGY(DOT)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90
QP CODE: 2162, OPHTHALMOLOGY PAPER-2**

**LONG ESSAYS (ANSWER ANY TWO) 2x10 = 20
MARKS**

1. Discuss differential diagnosis of acute conjunctivitis. How to manage bacterial conjunctivitis?
2. Define corneal ulcer. Mention the stages of corneal ulcer. Describe the complications of ulcer.
3. What are the causes of Cataract. Workup of cataract patient before cataract surgery.

SHORT NOTES(ANSWER ANY TEN) 10x5=50 MARKS

4. Clinical features and management of pterygium.
5. Ophthalmia neonatorum.
6. Interstitial keratitis.
7. Atropine sulphate.
8. Iridocyclitis.
9. Define cataract. Describe the stages of cataract.
10. Diabetic retinopathy.
11. Chalazion and its management.
12. Dacryocystitis and management.
13. Clinical features and management of blunt ocular trauma.
14. Blepharitis
15. Causes of red eye

SHORT ANSWERS 10x2= 20 MARKS

16. Phlycten.
17. Indication for enucleation.
18. Episcleritis.
19. White reflex in the pupil.
20. Phthisis bulbi.
21. Iris coloboma.
22. Blood haemoglobin estimation.
23. Mention two anti-fungal drugs.
24. Pilocarpine nitrate.
25. Fluorescein dye test.

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEARDIPLOMA IN OPHTHALMIC TECHNOLOGY(DOT)
TIME: 3 Hrs(RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 5163, OPHTHALMOLOGY PAPER-2

SHORT NOTES – ANSWER ANY EIGHT

(8x5=40)

1. Management of foreign body in the Eye.
2. Mention causes of Red Eye.
3. Short note on glaucoma and its type.
4. Classification of cataract.
5. Management of chemical injury.
6. Amblyopia.
7. Short note on SICS surgery.
8. Management of allergic conjunctivitis.
9. Tonometry and its types.
10. Hypertensive Retinopathy.

SHORT ANSWERS

(20x3=60)

11. Bitots spot.
12. Types of squint.
13. Chronic Dacryocystitis.
14. Traumatic cataract.
15. Cover test.
16. Lacrimal sac syringing.
17. Automated perimetry.
18. Causes of sudden painful and painless loss of vision.
19. Secondary glaucoma.
20. Management of vitamin A deficiency.
21. Types of SRK formula.
22. Classification of NPDR.
23. Spring catarrh.
24. Atropine and its uses.
25. Bacterial corneal ulcer.
26. Spherical equivalent.
27. Chalazion.
28. Aphakia.
29. Muscles of eyelids.
30. Acute congestive glaucoma.

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IYEARDIPLOMA/II YEAR CERTIFICATE COURSE IN DENTAL MECHANICS (DDM)
TIME: 1Hrs30Mins (RS -1 SCHEME) MAX. MARKS: 45

QP CODE:2172, APPLIED ORAL ANATOMY

LONG ESSAY - ANSWER ANY ONE **1 X 10 = 10**

- 1) Describe the Anatomy of Maxillary permanent first molar.
- 2) Mandibular denture- Supporting and limiting structures

WRITE SHORT NOTES ON ANY FIVE **5 X 5 = 25**

- 3) Compensating curves
- 4) Muscles of Mastication
- 5) Posterior palatal seal area
- 6) Movements of temporomandibular joint
- 7) Anatomy of maxillary right permanent central incisor
- 8) Class I occlusion
- 9) Tooth carving

WRITE SHORT ANSWERS **5 X 2 = 10**

- 10) Rugae
- 11) Bilabial sounds
- 12) Freni and its significance
- 13) Denture relief areas
- 14) Mention different tooth numbering systems

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEARDIPLOMA IN DENTAL MECHANICS(DDM)
TIME: 1Hrs30Mins (RS -2 SCHEME) MAX. MARKS: 50

QP CODE:5172, APPLIED ORAL ANATOMY

LONG ESSAY- ANSWER ANY FOUR

4 X 5 = 20

1. Teeth system
2. Platysma muscle
3. Anatomy of permanent maxillary first molar tooth
4. Posterior palatal seal area
5. Temporo-mandibular joint

SHORT ANSWERS

10 X3 = 30

6. Muscles of mastication
7. Facial artery
8. Mandible bone
9. Canine papilla
10. Inferior alveolar nerve
11. Compensatory curve
12. Buccinator muscle
13. Parotid duct
14. Lingual nerve
15. Enamel

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IYEARDIPLOMA/II YEAR CERTIFICATE COURSEIN DENTAL HYGIENE(DDH)
TIME: 1 Hrs 30Mins (RS -1 SCHEME) MAX. MARKS: 45

QP CODE:2183

SECTION A: GENERAL PATHOLOGY &MICROBIOLOGY

LONG ESSAY ANY ONE **1X9=9**

1.Describe 'inflammation, degeneration and repair' in relevance to teeth and surrounding tissue.

2.Discuss in detail the oral manifestations of systemic disease.

SHORT ESSAY ON ANY FOUR **4X5=20**

3.Vitamin D deficiency

4.Sterilization and its significance

5.Dental caries

6.Immunity – types and examples

7.Attrition

8.Gingivitis

SHORT ANSWERS **3X2=6**

9.Mention TWO tumors of oral cavity

10.Name TWO Gram positive bacteria

11.Microdontia

QP CODE:2184

SECTION B: PHARMACOLOGY

WRITE SHORT ANSWERS. **5x2=10.**

12 Name TWO cephalosporins.

13 Name TWO local anaesthetics.

14 Mention TWO mechanisms of action of drugs.

15 List TWO vitamins.

16 Mention TWO antitubercular drugs.

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
II YEARDIPLOMAIN DENTAL HYGIENE (DDH)
TIME: 1 Hrs 30Mins (RS -2 SCHEME) MAX. MARKS: 50

QP CODE:5183

SECTION A: GENERAL PATHOLOGY & MICROBIOLOGY

NOTES- ANSWER ANY FOUR

4x5=20

1. Importance of Record maintenance in Microbiology.
2. Hospital acquired infections.
3. Write briefly about lab diagnosis of Bacterial infections.
4. Discuss the investigations done in Microbiology.
5. Name 2 opportunistic parasitic infections. Brief about lab diagnosis of parasitic infections.

SHORT ANSWERS

5 x3=15

6. Name 3 Gram positive cocci.
7. Name 3 motile bacteria.
8. Name 3 DNA viruses.
9. Malarial parasites.
10. Name diseases affecting lung.

QP CODE:5184

SECTION B: PHARMACOLOGY

SHORT NOTES- ANSWER ANY ONE

1 X 5 = 05

11. Classify routes of drug administration; write the advantages and disadvantages of Intramuscular route of drug administration.
12. Mention 4 NSAIDs, write the uses and side effects of Paracetamol.

SHORT ANSWERS

5 X2 = 10

13. Name 2 Local anaesthetics used for infiltration anaesthesia.
14. Name 2 Penicillins and 2 uses of it
15. Name 2 uses and side effects of Diazepam.
16. Name 2 drugs used in treatment of hypersensitivity reactions.
17. Name 2 drugs used as anti-emetics.

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IYEARDIPLOMAIN PHYSIOTHERAPY (DPT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE:4193

SECTION A: PHYSIOLOGY

SHORT NOTES (ANSWER ANY FOUR)

4 x 5= 20

1. Define Erythropoiesis .Explain the steps of erythropoiesis
2. Functions of Growth hormone
3. Transport of oxygen in the blood
4. Properties of Receptors
5. Pulmonary function test

SHORT ANSWERS

10 x 3= 30

6. Cardiovascular changes during exercise
7. Functions of cerebellum
8. Muscles of Respiration
9. Define Bleeding time? Name 2 conditions where it is prolonged
10. Draw a neat labelled diagram of Action potential curve
11. Contraceptive methods in females
12. Reflex arc
13. Hypoxia
14. 3 functions of basal ganglia
15. Functions of vitamin D

QP CODE:4194

SECTION B: BIOCHEMISTRY

SHORT NOTES – ANSWER ANY FOUR

4x5=20

16. Classify vitamins. Mention the dietary sources, daily requirement and functions of vitamin A
17. What is detoxification? Explain the phases of detoxification.
18. Define lipids. Classify lipids with examples
19. Renal function tests
20. Define carbohydrates. Classify carbohydrates with examples.

SHORT ANSWERS

10x3=30

21. Explain denaturation of proteins with an example.
22. Balanced diet
23. Mitochondria
24. Essential aminoacids
25. Scurvy
26. Marasmus.
27. Lipid profile
28. Functions of lysosomes
29. Polysaccharides
30. Cholestrol

KARNATAKANURSING&PARAMEDICALSCIENCESEEDUCATION(REGULATION)AUTHORITY
PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIIYEARDIPLOMAIN PHYSIOTHERAPY (DPT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE:6193

P.T IN TRAUMATOLOGY & ORTHOPAEDICS

SHORT NOTES – ANSWER ANY EIGHT

(8x5=40)

1. Explain the fracture healing process.
2. Discuss the cause and management of malunion of fracture tibia.
3. Explain PT management of Above Knee amputation.
4. Define spinal canal stenosis? Cause, clinical features and management.
5. What is Claw hand? Explain its PT management.
6. What is pathological fracture? Causes and its management.
7. What is Ankylosing spondylosis? PT management of it.
8. PT management for adhesive capsulitis of shoulder.
9. What is pulsed electromagnetic therapy?
10. Discuss the cause and PT management of CTEV.

SHORT ANSWERS

(20x3=60)

11. Erbs palsy
12. Rheumatoid arthritis
13. Abductor mechanism of hip.
14. Quadriceps contracture.
15. Mallet finger.
16. Fat embolism.
17. Jones fracture
18. Osteosarcoma.
19. Charcot Joint.
20. Gas gangrene.
21. Vertical talus
22. Genu valgum
23. Scoliosis
24. PES cavus
25. TA Rupture
26. Dislocation and its management.
27. Process of healing of fracture.
28. Tenosynovitis.
29. Hand injuries
30. Management of contusion in deltoid.

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
I YEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY
(DMLT)**

TIME: 3 Hrs (RS -1 SCHEME)

MAX. MARKS: 90

QP CODE: 2104, PATHOLOGY

LONG ESSAY – ANSWER ANY TWO

2X10 = 20

1. Describe the morphology of normal and abnormal erythrocytes with neat labelled diagrams. (10)
2. Write in detail the various steps involved in tissue processing in histopathology. Add a note on automated tissue processor. (8+2)
3. Describe the procedure for urine collection. Write in detail about microscopic examination of urine. (4+6)

SHORT ESSAY- ANSWER ANY TEN

10X5 = 50

4. Decalcification in histopathology
5. Draw Neubauer's chamber and write its uses
6. Quality control in haematology
7. Preparation of peripheral smear. Add a note on ideal smear
8. Mention the anticoagulants used in haematology. Add a note on colour codes of vacutainers.
9. Reticulocyte count
10. Cyanmethemoglobin method of Hb estimation
11. Write the diagram of urinometer and label
12. Describe erythropoiesis with neat labelled diagram
13. Preparation of Leishman stain
14. Mention the various errors in section cutting and their remedies
15. Mention fixatives used in histopathology. Write the advantages and disadvantages of Formalin

SHORT ANSWERS

10X2=20

16. Mention the tests done for protein in urine
17. Name TWO clearing agents
18. Mention TWO uses of Wintrobe's tube
19. Expand 'DPX' and write its use
20. Name TWO stains used in cytopathology
21. Name FOUR casts in urine.
22. Mention red cell indices
23. Bouin's fluid
24. Packed cell volume
25. Draw WBC pipette and label

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IIYEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY (DMLT)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 5105, PATHOLOGY

SHORTNOTES:ANSWERANYEIGHT

8x5=40

1. Procedure to measure specific gravity of Urine
2. Erythrocyte Sedimentation Rate
3. Procedure of WBC Counting
4. Decalcification in histopathology
5. Preparation and staining of peripheral smear
6. Quality control in hematology
7. Physical and microscopic examination of stool sample
8. CSF Examination
9. Indications of PAP smears. Advantages of PAP stain
10. Fixatives used in Histopathology

SHORTANSWERS

20x3=60

11. Principle of Rothera's test
12. Laboratory Anticoagulants
13. Methods of collection of blood sample
14. List 3 buffers used in hematology
15. Preparation and staining of sputum smear
16. Draw a neat labelled diagram of sperm. Mention the normal sperm count
17. Red cell Indices
18. Microscopy of urine sample
19. Draw a neat labelled diagram of Eosinophil. List 2 causes of Eosinophilia
20. Advantages of Sahli's method of Hemoglobin estimation
21. Demonstration of Barr bodies
22. Mention three equipments used in histopathology
23. List the preservatives used for urine sample
24. Ideal peripheral smear
25. Draw a neat labelled diagram of Reticulocyte. Mention normal retic count
26. List the steps of tissue processing
27. Draw and label three abnormal erythrocyte
28. List the stains used in cytology
29. Master register in Histopathology
30. Procedure for preparing thick smear

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
I YEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR (DHI)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 2112, COMMUNITY MEDICINEPAPER-2

LONG ESSAY-ANSWER ANY TWO

2x10=20

- 1 What are vitamins? Describe manifestation of Vitamin D deficiency. How do you prevent vitamin D deficiency? (2+4+4)
- 2 What are the causes of air pollution? What are the hazards? How do you prevent them? (2+4+4)
- 3 Mention host and environmental factors of Hookworm infection. Add a note on its prevention (5+5)

SHORT NOTES ANSWER ANY TEN

10x5=50

- 4 Causes of under nutrition
- 5 Over crowding
- 6 Water Conservation
- 7 Nutritional Anemia.
- 8 Visible & invisible fats
- 9 Mid-day meal programme
- 10 Pentavalent Vaccine
- 11 Slow sand Filter.
- 12 SulabhShauchalaya
- 13 Doctor patient relationship
- 14 Effects of radiation
- 15 Sanitation barrier

SHORT ANSWERS

10x2=20

- 16 Aflatoxin
- 17 Diseases transmitted by sand fly
- 18 Two examples for protective food
- 19 Two effects of Global warming
- 20 Two household methods of purification of drinking water
- 21 Define & enumerate micro - nutrients
- 22 Importance of parboiling of Rice
- 23 Any four sources of Iron
- 24 Comfort Zone
- 25 Night Blindness

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEARDIPLOMA IN HEALTH INSPECTOR (DHI)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 5113, COMMUNITY MEDICINE PAPER-2

SHORT NOTES – ANSWER ANY EIGHT

8x5=40

1. Mention the disease transmitted by Anopheles. Discuss the Anopheles control measures
2. Mention the disease transmitted by Hard Tick. Discuss its control measures.
3. Aedes Mosquito
4. Housing Standards
5. Sewage treatment
6. Composting
7. Horrocks Apparatus
8. Soakage Pit
9. Septic tank
10. Large scale Purification of Water

SHORT ANSWERS

20x3= 60

11. Sanitary Barrier
12. Residual chlorine
13. Hazards of Indoor air pollution
14. Potable Water
15. Sand Fly
16. Rat Flea
17. Louse
18. Enlist different methods of small scale purification of water.
19. Space Spray
20. Solid Waste
21. Insecticide treated Bed nets
22. Gambusia
23. Paris Green
24. Disinfection of Well
25. Global Warming
26. Indicators of Air Pollution
27. Hazards of Noise Pollution
28. Housefly
29. DDT
30. Types of Ventilation

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
IYEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN MEDICAL X-RAY TECHNOLOGY(DMXT)
TIME: 1Hrs 30 Mins (RS -1 SCHEME) MAX. MARKS: 45

QP CODE: 2123, PHYSIOLOGY

LONG ESSAY- ANSWER ANY ONE

1 x 10 =10

- 1) List the various clotting factors. Explain the different pathways of coagulation.(4+ 6)
- 2) Synthesis, Actions of Thyroid hormone. Add a note on Hypothyroidism. (3+3+4)

WRITE SHORT NOTES ON ANY FIVE

5 x 5 =25

- 3) Menstrual Cycle
- 4) Blood Pressure
- 5) Composition and Functions of Saliva
- 6) Formation of Urine.
- 7) Cardiac output
- 8) Refractive errors and its correction
- 9) Pulmonary Function Tests

WRITE SHORT ANSWERS

5 x 2 =10

- 10) Name primary taste sensations
- 11) Two Functions of CSF
- 12) Define Pulse
- 13) Types of Hypoxia
- 14) Normal Value of a) Heart rate b) Respiratory rate

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEAR DIPLOMA IN MEDICAL IMAGING TECHNOLOGY (DMIT)
TIME: 1Hr 30 Min (RS -2 SCHEME) MAX. MARKS: 50

QP CODE: 5124, PHYSIOLOGY

SHORT NOTES- ANSWER ANY FOUR

4 X 5 = 20

1. Define Haemostasis. Write a brief note on Haemophilia
2. Draw a neat labelled diagram of Neuro-Muscular junction
3. Define 'Cardiac output' and 'Stroke volume'. Write their normal values
4. Name FOUR hormones of Anterior Pituitary gland. Write the functions of any one of them
5. Name FOUR lung volumes. Define any one of them and give its normal value

SHORT ANSWERS

10 X 3 = 30

6. Functions of sodium-potassium pump
7. Define 'Packed Cell Volume'. What is its normal value?
8. Draw neat labelled diagram of normal ECG waves
9. Write the THREE steps of urine formation
10. Write THREE clinical features of Hyperthyroidism
11. Write THREE functions of Testosterone
12. Draw neat labelled diagram of taste bud
13. Functions of cerebrospinal fluid
14. Name the types of Hypoxia
15. Write THREE functions of Bile juice

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
I YEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN OPERATION THEATRE TECHNOLOGY
(DOTT)
TIME: 3Hrs (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 2135, SECTION A: ANATOMY

LONG ESSAY – ANSWER ANY ONE **1 x 10 = 10**

1. Name the bones of upper limb. Write briefly about humerus bone.
2. Name the parts of gastrointestinal system. Write briefly about stomach.

WRITE SHORT NOTES ON ANY FIVE **5 x 5 = 25**

3. Skin
4. Thyroid Gland
5. Pituitary Gland
6. Trachea
7. Small Intestine
8. Cerebellum
9. Pancreas

WRITE SHORT ANSWERS **5 x 2 = 10**

10. Name the paranasal air sinuses
11. Name the types of muscles
12. Name types of cartilage
13. Name any two muscles of lower limb
14. Name any two veins of upper limb.

QP CODE: 2136, SECTION B: PHYSIOLOGY

LONG ESSAY- ANSWER ANY ONE **1 x 10 =10**

15. Define hypoxia. Describe types of Hypoxia (3+7)
16. List hormones of anterior pituitary. Describe the functions of growth hormone. (3+7)

WRITE SHORT NOTES ON ANY FIVE **5 x 5 =25**

17. Temperature regulation
18. Composition and Functions of Bile juice
19. Cardiac cycle
20. Blood groups
21. Functions of Kidney
22. Family planning methods
23. Peristalsis

WRITE SHORT ANSWERS **5 x 2 =10**

24. Four functions of cerebral cortex
25. Functions of WBC.
26. Normal value of Systolic and Diastolic Blood Pressure
27. Three primary taste sensations
28. Artificial respiration

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
II YEAR DIPLOMA IN OPERATION THEATRE & ANAESTHESIA TECHNOLOGY (DOT & AT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100
QP CODE: 5136, SECTION A: ANATOMY

SHORT ANSWERS- ANSWER ANY FOUR

4 X 5 = 20

1. Left lung
2. Liver
3. Classification of joints
4. Radius bone
5. Parts of GIT

SHORT NOTES

10 X 3 = 30

6. Kidney.
7. Pericardium.
8. First rib
9. Superficial veins of upper limb
10. Name the meninges
11. Parts of respiratory system
12. Nervous tissue
13. Name three anatomical positions
14. Types of epithelium
15. Aponeurosis

QP CODE: 5137, SECTION B:PHYSIOLOGY

SHORT NOTES - ANSWER ANY FOUR

4 X 5 = 20

16. List the functions of Plasma proteins
17. Name the hormones secreted by Posterior Pituitary. Write the functions of ANY ONE of them
18. Explain the transport of Oxygen in blood from lungs to tissues
19. Define Glomerular Filtration rate. Write the normal value. Mention ONE method of estimation of it
20. Write the composition and functions of Pancreatic juice

SHORT ANSWERS

10 X 3 = 30

21. Write the function of Mitochondria and Endoplasmic reticulum
22. Name the divisions of Autonomic Nervous system. Write one function of each
23. Name the parts of conducting system of the heart
24. Define 'Erythrocyte Sedimentation Rate'. Name TWO conditions where it is increased
25. Draw a neat labelled diagram of SARCOMERE
26. Define Cardiac Output. Give it normal value
27. Methods of Artificial respiration
28. Draw a neat labelled diagram of NEURON
29. Name FOUR contraceptive methods used in female
30. List the functions of Skin

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IYEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN MEDICAL RECORDS TECHNOLOGY
(DMRT)**

TIME: 3Hrs (RS -1 SCHEME)

MAX. MARKS: 90

QP CODE: 2145, HOSPITAL STATISTICS & BIOSTATISTICS

LONG ESSAY-ANSWER ANY THREE

3x10=30

- 1 Define Sampling. Explain the sampling methods used in Health survey.
- 2 Explain any two Measures of Dispersion and its advantages and disadvantages.
- 3 Define Vital Statistics. Explain the Vital Statistics registration procedure.
- 4 Define Hospital Death Rate, Bed Occupancy Rate and Bed Turn Over Interval

SHORT NOTES -ANSWER ANY TEN

10x5=50

- 5 Frequency distribution.
- 6 Pie diagram.
- 7 Mean Deviation.
- 8 Arithmetic Mean.
- 9 Bar chart.
- 10 Birth Rate and Death Rate
- 11 Gross Hospital Death Rate
- 12 Standard deviation
- 13 Graphical method of presentation of data.
- 14 Correlation
- 15 Length of Stay.

SHORT ANSWERS- ANSWER ANY FIVE

5x2=10

- 16 Histogram.
- 17 Inpatient day.
- 18 Mode.
- 19 Regression
- 20 Uses of Hospital Statistics.
- 21 Range

KARNATAKANURSING&PARAMEDICALSCIENCESEEDUCATION(REGULATION)AUTHORITY
PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEAR DIPLOMA IN MEDICAL RECORDS TECHNOLOGY(DMRT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 5146, HOSPITAL STATISTICS & BIOSTATISTICS

SHORTNOTES: ANSWER ANY EIGHT

8x5=40

1. What is sampling? Describe various types of sampling in brief
2. Notification of diseases
3. Registration of vital events
4. Define Biostatistics and write its uses in medical sciences
5. Define Morbidity and explain two indicators
6. Prevalence and Incidence
7. Define Mean and write down its merits and demerits
8. Range and Quartile deviation
9. Explain about Bar diagram and Pie Chart
10. Hospital inpatient and hospital outpatient statistics

SHORTANSWERS

20x3=60

11. Simple Random sampling method
12. Bed Occupancy Rate
13. Histogram
14. Transfer of patient
15. Systematic random sampling method
16. Multiple Bar diagram
17. Average length of stay
18. Anesthesia death rate
19. Chi square test
20. Purposive sampling
21. Post operative complication rate
22. Variable
23. Sex ratio
24. Range
25. IMR
26. Name three vital statistics
27. Caesarean section rate
28. Define quantitative data with example
29. Scatter diagram
30. Autopsy rate

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IYEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN DIALYSIS TECHNOLOGY(DDT)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90**

QP CODE: 2155, SECTION A: ANATOMY

LONG ESSAY (ANSWER ANY ONE) 1 x 10 = 10

1. Describe the Heart under the following headings:
(a) Chambers (b) Covering (c) Blood Supply. (4+2+4)
2. Name the parts of the Brain. Describe Cerebrum in brief. (5+5)

SHORT NOTES (ANSWER ANY FIVE) 5 x 5 = 25

3. Urinary Bladder
4. Stomach
5. Spleen
6. Thyroid Gland
7. Histology of Hyaline Cartilage
8. Femoral Artery

SHORT ANSWERS 5 x 2 = 10

9. Name any two Muscles of Abdomen
10. Name the Bones of Fore Arm
11. Name two Veins of Upper Limb
12. Name the parts of Urinary System
13. Name any two Lymphoid Organs

QP CODE: 2156, SECTION B: PHYSIOLOGY

LONG ESSAY- ANSWER ANY ONE 1 x 10 =10

14. Define Glomerular Filtration Rate (GFR). Factors affecting GFR. Measurement of GFR
(2+5+3)
15. Composition and Function of Blood. (3+7)

WRITE SHORT NOTES ON ANY FIVE 5 x 5 =25

16. Blood Pressure
17. Heart sounds
18. ECG waves with the Diagram
19. Blood Groups
20. Define Erythrocyte Sedimentation Rate (ESR). Factors affecting ESR
21. Non- Excretory functions of Kidney

WRITE SHORT ANSWERS 5 x 2 =10

22. Normal Value of 1) Heart rate 2) Respiratory rate
23. List hormones of Anterior pituitary
24. Anemia
25. Types of transport across cell membrane.
26. Insulin

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IIYEAR DIPLOMA IN DIALYSIS TECHNOLOGY(DDT)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100
QP CODE: 5155 SECTION A: ANATOMY

SHORT ANSWERS- ANSWER ANY FOUR

4 X 5 = 20

1. Name the parts of respiratory system. Describe in brief about lungs
2. Right kidney
3. Pancreas
4. Write about heart in brief
5. Classify bones with examples

SHORT NOTES

10 X 3 = 30

6. Write briefly about anatomical movements
7. Parts of large intestine
8. Larynx
9. Pericardium
10. Name the muscles of lower limb (any three)
11. Draw a neat labelled diagram of hyaline cartilage
12. Neuron
13. Parts of urinary system
14. Name any three arteries of upper limb
15. Name the quadrants of abdomen

QP CODE: 5156

SECTION B: PHYSIOLOGY

SHORT NOTES (ANSWER ANY FOUR QUESTIONS)

4 X 5 = 20

16. Define Secondary active transport. Explain with an example
17. Explain the stages of erythropoiesis
18. Explain counter-current mechanism in the kidneys
19. Draw neat labelled diagram of conducting system of the heart.
20. Write the functions of cortisol hormone

SHORT ANSWERS

10 X 3 = 30

21. Write the source and function of Erythropoietin
22. Name the types of cell junctions
23. What are the functions of Platelets?
24. Write the steps of urine formation
25. Write the normal values of Heart rate and Blood pressure
26. Functions of Parathormone
27. Functions of Hemoglobin
28. Name the types of Dialysis
29. State Landsteiner's law of blood groups
30. Name THREE anticoagulants

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
IYEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN DENTAL HYGIENE(DDH)
TIME: 1HR 30MINS (RS -1 SCHEME) MAX. MARKS: 45**

QP CODE: 2185, SECTION A: BIOCHEMISTRY

Long Essay (Answer any one) 1X10=10

1. Define lipid. Classify them with suitable example.
2. Sources, RDA, Biochemical functions and deficiency disorders of Vitamin C.

Short notes (Answer any three) 3X5=15

3. Biomedical significance of carbohydrates.
4. Functions of calcium.
5. Functional classification of proteins.
6. Factors regulating serum calcium level

QP CODE: 2186, SECTION B: RADIOLOGY

Write short notes 4X5=20

7. Processing and mounting of dental radiographs.
8. Intraoral periapical x-ray.
9. Hazards of radiation and protection against it.
10. Orthopantomogram.

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
II YEAR DIPLOMA IN DENTAL HYGIENE (DDH)
TIME: 1 HR 30MIN (RS -2 SCHEME) MAX. MARKS: 50**

QP CODE: 5185, SECTION-A, BIOCHEMISTRY

SHORT NOTES

2x5=10

1. Define carbohydrates. Classify carbohydrates with examples.
2. Explain the factors affecting enzyme activity

SHORT ANSWERS

5 x3=15

3. What are lipids? Give examples
4. What are essential amino acids. Give examples
5. Mention three important functions of vitamin C
6. Name the purine and pyrimidine bases.
7. Mention three important functions of calcium.

QP CODE:5186, SECTION –B ,RADIOLOGY

LONG ESSAY

2X5=10

8. Write in detail processing and mounting of dental radiographs
9. Explain radiation hazards . Add a note on protection against radiation.

WRITE SHORT NOTES

5X3=15

10. Paralleling technique
11. Intraoral periapical x ray
12. Structure of an atom.
13. Orthopantomogram.
14. Bite wing radiograph.

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
I YEAR DIPLOMA IN PHYSIOTHERAPY (DPT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE:4195, SECTION A: BIOMECHANICS

SHORT NOTES – ANSWER ANY EIGHT

8x5=40

1. State the laws of Newton's and explain.
2. Discuss the detail about various force system acting on human body.
3. Discuss different orders of levers with example.
4. Mention various types of equilibrium with examples.
5. Define elasticity. Explain Hook's law.
6. Write a note about Hand function
7. Describe biomechanics of shoulder joint
8. Describe biomechanics of Ankle joint
9. Define Gait and explain gait analysis of human body
10. Explain the structure of temporomandibular joint.

SHORT ANSWER

20x3= 60

11. Angle of pull.
12. Range of movement.
13. Use of spring in physiotherapy.
14. Linear and angular velocity.
15. Centre of gravity with diagram.
16. Line of gravity with diagram.
17. Ballistic movement.
18. Kinetic energy.
19. Stress and strain.
20. Axis and planes.
21. Concurrent forces
22. Patellar movements.
23. Goniometer Transitional epithelium
24. Any two types of mobility aids in physiotherapy
25. Circumduction gait
26. Suspension unit
27. Continuous passive motion
28. Define Energy, work and power
29. Co planar forces
30. Mechanical advantage of lever

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
III YEAR DIPLOMA IN PHYSIOTHERAPY (DPT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 6195, P.T IN NEUROLOGY & NEUROSURGERY

SHORT NOTES – ANSWER ANY EIGHT

8x5=40

1. Write classification of nerve injury? How will you manage Erb's palsy due to traction injury.
2. What is femoral nerve palsy? Write down its management.
3. Brain tumor? Cause, clinical features and its managements.
4. What is cerebrovascular accident? Explain its management.
5. What is Parkinsonian gait? How will you do gait training for 65 years old Parkinsonism patient.
6. Write about importance of APGAR score in early diagnosis
7. Discuss cerebral ataxia? Explain its clinical features and its management.
8. IVDP, cause, clinical features, and its management.
9. What is Laminectomy? Procedure and indication.
10. Write short note on Sciatic Nerve Palsy.

SHORT ANSWERS

20x3=60

11. Wilson's disease.
12. Athetosis.
13. Down syndrome.
14. Tetanus.
15. Asphyxia
16. Muscular dystrophy.
17. Transverse Myelitis.
18. Bowel dysfunction.
19. Signs of meningitis.
20. Dandy walker syndrome.
21. Septic encephalopathy
22. Bell's phenomenon
23. Causes of high stepping gait.
24. Aeroplane splint.
25. Encephalitis.
26. Obturator nerve palsy.
27. Brachial plexus palsy.
28. Rhizotomy.
29. Brucellosis.
30. Poliomyelitis.

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IYEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY
TECHNOLOGY(DMLT)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 2105, MICROBIOLOGY

Long assay (Answer any two)
2X10=20

1. Define and classify immunity. Describe acquired immunity. (2+3+5)
2. Define and classify sterilisation. Discuss sterilisation by dry heat. (2+3+5)
3. Classify culture media. Write in detail about preparation of Blood agar. (5+5)

Write short notes (Answer any ten)
10X5=50

4. Robert Koch
5. Handling and care of Compound Microscope
6. Structure and properties of Immunoglobulin A
7. Bacterial growth curve
8. McIntosh and Fildes's Jar
9. Mechanisms of Innate Immunity
10. Washing of new glassware
11. What are the main attributes that make a substance a good antigen?
12. Bacterial spore
13. Albert stain and its uses
14. Universal precautions
15. Autoclave

Write Short answers
10X2=20

16. Name two chemical disinfectants
17. Oxidase test
18. Name two enrichment media
19. Name two acid fast bacteria
20. Name two live attenuated vaccines
21. Name two Indole positive bacteria
22. Name two uses of Dark ground microscope
23. Define heterophile antigen
24. Name two anaerobic bacteria
25. Pasteurisation

KARNATAKANURSING&PARAMEDICALSCIENCESEEDUCATION(REGULATION)AUTHORITY
PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEARDIPLOMA IN MEDICALLABORATORYTECHNOLOGY(DMLT)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 5107,MICROBIOLOGY

SHORTNOTES:ANSWERANYEIGHT

8x5=40

1. Contribution of Louis Pasteur.
2. Draw a neat labelled diagram of a Monocular Microscope.
3. Bacterial growth Curve.
4. Enumerate basic technique in the preparation of Culture Media.
5. Labelled diagram of Bacterial Cell.
6. Autoclave.
7. Preparation of Hanging Drop.
8. Type I Hypersensitivity.
9. Bio-medical Waste Management.
10. Enumerate Chemical methods of Sterilisation.

SHORTANSWERS

20x3=60

11. Spirochaetes.
12. Robertson's cooked meat medium.
13. Cold Sterilisation.
14. THREE ingredients of Blood Agar.
15. Name THREE Differential Stains.
16. IgM.
17. Name THREE gram positive bacteria.
18. Different shapes of bacteria.
19. Covid-19 Virus.
20. Testing of disinfectants.
21. Name THREE Capsulated bacteria.
22. AST (Antibiotic Susceptibility Testing).
23. AIDS.
24. Coagulase test.
25. Hand hygiene.
26. Active immunity.
27. Uses of dark ground microscope.
28. Name THREE agglutination tests.
29. CRP.
30. Name THREE motile bacteria.

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IYEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR (DHI)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 2113, COMMUNITY MEDICINE-3

LONG ESSAY-ANSWER ANY TWO

2x10=20

1. Name the arthropods of medical importance. Discuss in detail about mosquito borne diseases and its control and prevention.
2. Classify epidemiological methods. Discuss descriptive epidemiology in detail.
3. Define Statistics. What are the uses of statistics? Name different branches of statistics?

SHORT NOTES ANSWER ANYTEN

10x5=50

4. Prevention and Control measures of Amoebiasis
5. Epidemiological features of Ascaris (Round Worm)
6. Advice to travellers.
7. Anti-larval measures.
8. Notifiable diseases.
9. Census.
10. Sampling methods in statistics.
11. Herd immunity
12. Uses of epidemiology.
13. Cold chain.
14. Write the national immunization schedule.
15. Natural history of disease

SHORT ANSWERS

10x2=20

16. Chandlers index
17. Isolation
18. Pie-chart.
19. Health Education in Hookworm infection
20. Quarantine.
21. Standard of living
22. Diseases transmitted by Hard Ticks-any three
23. Name types of disinfection with an example each
24. Disease elimination and eradication.
25. Crude death rate

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEAR DIPLOMA IN HEALTH INSPECTOR (DHI)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 5115, COMMUNITY MEDICINE-3

SHORT NOTE- ANSWER ANY EIGHT

8X5=40

1. Discuss the Indirect Transmission-under Modes of Disease Transmission
2. Define Epidemiology. Enumerate the types of Epidemiological Studies
3. Investigation of an Epidemic
4. Web of Causation. Explain with a suitable example
5. Carriers-Classify and give suitable examples
6. Define Health Information System (HIS) .Write Components of HIS
7. Discuss Milk Hygiene-Sources of Infection and Milk borne Diseases
8. Discuss Slaughter House Sanitation
9. Discuss in brief Community Nutrition Programmes
10. Mention the Effects of Iodine Deficiency Disorder. Mention Four Food items rich in Iodine.

SHORT ANSWERS

20X3=60

11. Eradication.
12. Reservoir.
13. Deep Freezer.
14. Chemical Agents of Disinfection-any three.
15. Endemic.
16. Uses of Screening-any three.
17. Adverse Events Following Immunization-any three.
18. Name any three Live and Killed Vaccines.
19. Incidence rate.
20. BCG Vaccine-Dosage and Route of administration.
21. Mention any three diseases transmitted by not maintaining proper Meat Hygiene.
22. Assessment of Nutritional status-any three methods.
23. Notification of diseases. Give an example of notifiable diseases.
24. Pictogram.
25. Millets-Write its nutritive value and give an example.
26. Prevention of Food Adulteration Act.
27. Birth and Death Registry.
28. Parboiling.
29. Food additives-Define with an example.
30. Define Macronutrients-give an example for each.

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
IYEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN MEDICAL X-RAY TECHNOLOGY(DMXT)
TIME: 1 Hrs 30Mins (RS -1 SCHEME) MAX. MARKS: 45

QP CODE: 2124, PATHOLOGY

LONG ESSAY-ANSWER ANY ONE **1x10=10**

1. Briefly describe etiology, pathogenesis and morphology of Pyogenic osteomyelitis.
2. Briefly describe etiology, pathogenesis and morphological changes in rheumatic heart disease.

SHORT NOTES -ANSWER ANY FIVE **5x5=25**

3. Characters of benign and malignant tumours
4. Enumerate differences between kwashiorkor and marasmus.
5. Odema – etiology,pathogenesis.
6. Define inflammation.Mention signs of inflammation.
7. Hyperplasia
8. Hydronephrosis
9. Stages of pneumonia

SHORT ANSWERS **5x2=10**

10. Causes of goitre
11. Causes of cardiomegaly
12. Define cirrhosis
13. Leather bottle stomach
14. Epistaxis

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEARDIPLOMA IN MEDICAL IMAGING TECHNOLOGY(DMIT)
TIME: 1Hrs 30 Mins (RS -2 SCHEME) MAX. MARKS: 50

QP CODE: 5125, PATHOLOGY

SHORT ESSAY – ANSWER ANY FOUR

4x5=20

1. Define Gangrene. Mention different types of gangrene with examples.
2. Define Emphysema. Discuss the types and morphology of emphysema
3. Define Osteomyelitis. Mention different types of Osteomyelitis with a note on tuberculosis of spine.
4. Write about causes and signs and symptoms of vitamin A deficiency.
5. Define Inflammation. Mention the types with examples. Name the cardinal signs of inflammation

SHORT NOTES

10x3=30

6. Risk factors of Carcinoma cervix.
7. Types of Gall stones.
8. Causes of Epistaxis.
9. List three tumors of kidney.
10. Morphology of Gastric Cancer
11. Vitamin C deficiency.
12. Fatty liver.
13. Types of Emboli
14. List three differences between benign and malignant tumor.
15. Kwashiorkor.

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
IYEAR DIPLOMAIN PHYSIOTHERAPY (DPT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE:4197

SECTION A: PSYCHOLOGY

SHORT NOTES – ANSWER ANY FOUR

4x5=20

1. Define psychology. How psychology gained the status of science.
2. What is learning? Mention the types of learning.
3. What are motives? How motives are classified?
4. What is emotion? Mention psychological changes during emotions & its types.
5. What is perception? Diagrammatically represent perceptual Organization?

SHORT ANSWERS

10x3= 30

6. Sources of frustration.
7. Forgetting.
8. Growth and development.
9. Methods to improve memory.
10. Hallucination.
11. Study habits.
12. Management of stress in modern life style.
13. Attitude.
14. Memory process.
15. Branches of psychology.

QP CODE:4198

SECTION B: SOCIOLOGY

SHORT NOTES – ANSWER ANY FOUR

4x5=20

16. Describe the influence of family in health and diseases.
17. What is socialization? How does it influence personality?
18. Define culture. Illustrate it with example.
19. What is juvenile delinquency? Explain.
20. Discuss social groups? Compare between primary and secondary groups.

SHORT ANSWERS

10x3= 30

21. Family planning.
22. Welfare of old peoples.
23. Unemployment.
24. Group morale in hospital.
25. Difference between society and community.
26. Dowry system.
27. Medical sociology.
28. Unmarried and single mothers.
29. Social security.
30. Marriage.

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIIYEAR DIPLOMAIN PHYSIOTHERAPY (DPT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE:6197

COMMUNITY BASED REHABILITATION

SHORT NOTES – ANSWER ANY EIGHT

8x5=40

1. Rehabilitation of a Geriatric patient.
2. Discuss the role of Home exercises in CBR.
3. Explain role of physiotherapy for loco motor diseases in CBR.
4. Differentiate the urban and rural CBR objective and its scope in Physiotherapy.
5. Advantage and disadvantage of institutional services.
6. Define CBR? Explain in detail about different type of agencies in Indian community.
7. Define High risk screening. Write in detail about early detection of disability
8. Explain the importance of genetic Counselling
9. Role of social workers in CBR
10. What are the strategies to improve ADL for patient.

SHORT ANSWERS

20x3=60

11. Camp and specialist approach.
12. Poliomyelitis.
13. Importance of communication skills in CBR.
14. Impairment, Disability and Handicap.
15. Resource Mobilisation.
16. Vocational training of a Disabled.
17. UNICEF.
18. Comprehensive rehabilitation.
19. Importance of Parental counselling.
20. Bracing materials used in rural rehabilitation.
21. Define PWD Act
22. Function of Red cross in CBR
23. Principles of CBR
24. Define Down's syndrome
25. Day care centres
26. Define Survey
27. What is primary Rehabilitation Unit
28. Importance of disability Survey
29. Role of Anganwadi Workers in CBR activity
30. Four funding possibilities for sustaining a CBR project

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IIYEARDIPLOMA/III YEAR CERTIFICATE COURSE IN
MEDICALLABORATORYTECHNOLOGY(DMLT)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 3101, BIOCHEMISTRY

Long Essay (Answer any two)

2X10=20

01. Define liver function test? Write differential diagnostic tests of jaundice.
02. Define glycolysis? Describe the aerobic glycolysis with energetic.
03. What is automation? Classify auto analyzers. Write difference between random access and batch analysers.

Short Essay (Answer any ten)

10X5=50

04. Glucose tolerance test
05. Transamination reaction.
06. Ketogenesis
07. Give account of abnormal physical properties of urine.
08. Functions of blood.
09. Creatinine clearance test
10. Principle and types of electrophoresis.
11. ELISA
12. Write pre analytical errors.
13. Define gluconeogenesis with significance.
14. Digestion of lipids.
15. Sodium glucose transporters.

Short answer

10X2=20

16. What are NPN substances? Write the names the NPN substances.
17. Name dietary sources of carbohydrates.
18. Detection of sugar in urine.
19. Benzidine test.
20. Application of Chromatography
21. Enzymes in liver diseases.
22. Name bile pigments.
23. Name the hormones which regulate blood sugar.
24. Write normal ranges of Total, Direct and Indirect bilirubin.
25. Urinometer significance

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
III YEARDIPLOMA IN MEDICAL LABORATORY TECHNOLOGY(DMLT)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 6101, BIOCHEMISTRY

SHORT NOTES: ANSWER ANY EIGHT

8x5=40

1. Define jaundice. Mention the types of jaundice with biochemical findings.
2. Principle and applications of ELISA.
3. Discuss the principle, instrumentation and applications of colorimeter.
4. Explain the pattern of cardiac enzymes in myocardial infarction.
5. Renal function tests.
6. Mention different methods of Glucose estimation.
7. Name the type of analyzers and benefits of automation in clinical laboratory.
8. What is quality control? Explain the types of quality control in clinical lab.
9. Electrophoresis and its applications.
10. Define pH. Explain the causes of respiratory acidosis and respiratory alkalosis

SHORTANSWERS

20x3=60

11. Creatinine clearance test
12. Define a) Accuracy and b) Specificity c) sensitivity
13. Applications of Radioimmunoassay (RIA).
14. Name three bile pigments.
15. Hay's Sulphur test.
16. Reference values and interpretations.
17. Lipid profile.
18. Hyperkalaemia.
19. Percentage error in laboratory.
20. Specific gravity of urine.
21. Write the normal values of a) Fasting Glucose b) Urea c) Creatinine.
22. Preanalytical variables in clinical chemistry.
23. Causes of hypokalemia.
24. Write the normal values of serum electrolytes.
25. Benedict's test.
26. Bilirubin formation.
27. Cause of respiratory alkalosis.
28. Biuret test.
29. Seliwanoff's test.
30. Define buffers. Mention the buffer system in the body.

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PARA MEDICAL BOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
II YEARDIPLOMA/III YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR (DHI)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 3111, COMMUNITY MEDICINE

LONG ESSAY - ANSWER ANY TWO **2x 10 =20**

1. Describe epidemiology of tuberculosis. Add a note on its control and prevention.
2. Define primary health care. Enumerate the Principles of primary health care.
3. Define balanced diet. Add a note on Community Nutrition Programmes

SHORT NOTES –ANSWER ANY TEN **10x5=50**

4. Sex ratio.
5. Danger signs of Cancer.
6. Control and treatment of cholera.
7. Vision 2020.
8. Post exposure prophylaxis of Rabies.
9. Audio-visual Aids.
10. Define epidemic, endemic and pandemic with examples.
11. Epidemiology of Dengue
12. Write modes of transmission of HIV.
13. Harmful effects of tobacco on health. Measures to control and prevent tobacco use.
14. Classification of Leprosy.
15. Pulse polio Immunisation.

SHORT ANSWERS **10x2=20**

16. ORS
17. Typhoid carrier.
18. Dead end disease.
19. Case fatality rate.
20. Universal precautions.
21. Growth chart.
22. BCG.
23. Mention any four organisms causing diarrhoea.
24. Mass Treatment of filariasis.
25. Man Made malaria.

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III YEAR DIPLOMA IN HEALTH INSPECTOR (DHI)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 6111, COMMUNITY MEDICINE, PAPER I

SHORTNOTES:ANSWERANYEIGHT

8x5=40

1. Life cycle of malarial parasite
2. Modes of HIV transmission
3. Steps of investigation of epidemic
4. Risk factors of coronary heart diseases
5. Oral polio vaccine
6. Swachh Bharath Mission
7. WHO criteria for diagnosis of rheumatic fever
8. Pulse polio Immunization
9. Describe the epidemiology of Cholera. Discuss prevention and control of it
10. Treatment of Leprosy

SHORTANSWERS

20x3=60

11. BCG Vaccine
12. Three diseases transmitted through unsafe water
13. Active surveillance Malaria
14. Diseases transmitted by faeco-oral route
15. Accidents prevention
16. Body Mass Index (BMI)
17. Three life style diseases
18. Effects of smoking
19. Name any three Zoonotic Diseases
20. Composition of ORS
21. DOTS
22. Rashtriya Bal Swasthya Karyakram (RBSK)
23. What is self-care in Diabetes mellitus?
24. Function of anganwadi centre
25. Domestic accidents
26. Cancer Screening
27. Signs of severe dehydration
28. Menstrual hygiene scheme
29. Tetanus vaccination
30. Periodic Deworming programme

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PARA MEDICAL BOARD, BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
II YEAR DIPLOMA/ III YEAR CERTIFICATE COURSE IN MEDICAL X-RAY
TECHNOLOGY (DMXT)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90**

QP CODE: 3121, RADIOLOGY INCLUDING RADIOLOGY PHYSICS

LONG ESSAY – ANSWER ANY TWO

2X10=20

1. Write in detail about production of x-rays.
2. Describe the construction and working of an image intensifier
3. Draw neat labelled diagram of dark room layout

WRITE SHORT NOTE ON ANY TEN

10X5=50

4. Composition of fixer
5. Mammography
6. Rectification
7. Anode –Heal effect
8. Safe light
9. Hazards of radiation
10. Film artefacts
11. Filters
12. Zero radiography
13. Difference between CR and DR
14. Photo-electric effect
15. Radiopharmaceuticals

WRITE SHORT ANSWER

10X2=20

16. Radioisotopes
17. Grid
18. Sievert
19. Stationary anode
20. Expand SPECT and PET
21. Collimators
22. Scatter radiation
23. Define isobar and isotones
24. Replenisher
25. Cassette

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIIYEAR DIPLOMA IN MEDICAL IMAGING TECHNOLOGY(DMIT)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE:6121, RADIOGRAPHIC POSITIONING & RADIOGRAPHIC PHOTOGRAPHY

SHORT NOTE- ANSWER ANY EIGHT

8X5=40

1. Beam limiting devices
2. Grid construction
3. Linear attenuation coefficients
4. Radioactive materials
5. Mobile radiography
6. Biological damage of ionizing radiation
7. Cardinal principles in protection from radiation
8. Radiographic view of lumbar spine
9. Describe land marks of skull
10. Radiography of chest

SHORT ANSWERS

20X3=60

11. Magnification
12. Radiation protection devices
13. CT- Artefacts
14. Collimation
15. kVp& mAs
16. Rules of safe patients transfer
17. Filters
18. Asepsis
19. Matrix size
20. Sign and symptom of contrast media reaction
21. Radiography of Scaphoid
22. Radiography for optic foramina
23. Somatic effects
24. Genetically significant dose
25. Fluoroscopic procedure
26. Radiography of Mastoid
27. Calipers
28. Describe inversion and eversion
29. Bone age
30. Skyline view of Patella

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SUPPLEMENTARY EXAMINATION, APRIL - 2023

**IIYEARDIPLOMA/III YEAR CERTIFICATE COURSE IN OPERATION THEATRE
TECHNOLOGY(DOTT)**

TIME: 3Hrs (RS -1 SCHEME)

MAX. MARKS: 90

QP CODE: 3131, ANAESTHESIA & ALLIED TOPICS

ANSWER ANY TWO

2X10=20

1. What are local anaesthetic agents? Classify local anaesthetics. Write briefly about local anaesthetic toxicity. (2+3+5)
2. Mention different types of centrineuraxial blockade. Describe the effect of centrineuraxial blockade on various organ systems. (2+8)
3. Classify anaesthesia breathing systems. Write a note on Bain's circuit. (4+6)

WRITE SHORT NOTES ON ANY TEN

10X5=50

4. Pulse Oximetry
5. Colloids
6. Morphine
7. Nitrous Oxide
8. Jackson Ree's circuit
9. Minimum Alveolar Concentration
10. Pin Index safety System
11. Glycopyrrolate
12. Combitube
13. Electrical hazards in the Operation Theater
14. Informed written consent
15. Vecuronium

WRITE SHORT ANSWERS

10x2=20

16. Name four opioid analgesics
17. Name four blood components
18. Name four neuromuscular blocking agents
19. Name two indications for endotracheal intubation
20. Name four complications of general anaesthesia
21. Name four crystalloids
22. Name two approaches to brachial plexus block
23. What is the colour of Oxygen and Nitrous oxide cylinder?
24. Name four cartilages of larynx.
25. Name two contraindications for spinal anaesthesia

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PARA MEDICAL BOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
III YEAR DIPLOMA IN OPERATION THEATRE & ANAESTHESIA TECHNOLOGY(DOT & AT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100**

QP CODE: 6131, ANAESTHESIA & ALLIED TOPICS

Short notes, answer any EIGHT questions

8x5=40

1. Complications of blood transfusion
2. Circle system
3. Epidural anaesthesia
4. Basic life support
5. Postoperative care of high risk patients
6. ASA physical grading
7. Monitored Anaesthesia Care
8. Preoperative preparation of anaesthesia equipments (Cockpit Drill)
9. Laryngeal Mask Airways
10. Capnography

Short Answers

20x3=60

11. Ambu bag
12. Noradrenaline
13. Lignocaine
14. Midazolam
15. Pethidine
16. Atropine
17. Isoflurane
18. Laryngoscope
19. Defibrillator
20. Emergency drugs
21. Ringer lactate
22. Neostigmine
23. Airway assessment
24. Clonidine
25. Spinal needles
26. Intravenous regional Anaesthesia
27. Bougie
28. Dexamethasone
29. Ventimask
30. Metaclopramide

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PARAMEDICALBOARD,BENGALURU**

SUPPLEMENTARY EXAMINATION, APRIL - 2023

**II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN MEDICAL RECORDS
TECHNOLOGY(DMRT)**

TIME: 3Hrs (RS -1 SCHEME)

MAX. MARKS: 90

QP CODE: 3141, MEDICAL TERMINOLOGY

- 1. ANSWER THE FOLLOWING** **5 x 3 =15**
- A. Terminology is influenced by which languages? Why?
B. Explain Medical Terminology
C. What is Diagnosis? And name the contents of Diagnosis
- 2. Give the Meaning for the following Prefixes** **5 x 1 = 5**
a) Trans b) Ana c)Dys d) Pre e)Sub
- 3. Give the meaning for following Suffixes** **5 x 1 = 5**
a) rrhagia
b) cysto
c) rrhoea
d) emia
e) genic
- 4. Give the meaning for following roots** **5 x 1 = 5**
a) cardi
b) colpo
c) cerebro
d) salpingo
e) gastr
- 5. Write phobias for the following** **10 x 1 = 10**
a) Books
b) Water
c) child birth
d) Lightning
e) Snakes
f) Darkness
g) Nakedness
h) People/Society
i) Girls
j) Cats
- 6. Differentiate the following terms** **5 x 2 = 10**
a) Otomy and Ostomy
b) Septic and Aseptic
c) Hyper & Hypo
d) Ilium & Ileum
e) malleolus & malleus

P.T.O

7. Match the following

5 x 1 = 5

- a) Poli Red
- b) Xantho Six
- c) Ruber Grey
- d) Melan Yellow
- e) Hexa Black

8. Give the medical terms for the following

10 x 1 =10

- a) Narrowing of arteries
- b) presence of sugar in urine
- c) Surgical removal of Uterus
- d) Surgical removal of Tonsils
- e) inflammation of the intestine
- f) inflammation of the heart
- g) surgical fixation of Uterus
- h) Hernia of the intestine
- i) surgical operation to avoid child birth
- j)

9. Define following

10 x 1 = 10

- a) Mitral stenosis
- b) Thyroidectomy
- c) Prostatectomy
- d) Tracheostenosis
- e) Cholelithiasis
- f) Myalgia
- g) Hydroencephalocele
- h) Peritonitis
- i) Hysterectomy
- j) Pyocele

10. Expand the following

10x1=10

- a) SMC b) DNS c) COPD d) LSCS e) DM-2
- g) ARF
- h) PID i) IDDM j) CVA

f) ARDS

11. Give the meaning for following numerical

5x1=5

- a) Uni
- b) Duo
- c) Bi
- d) Mega
- e) Quadri

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**SUPPLEMENTARY EXAMINATION, APRIL - 2023
III YEARDIPLOMAIN MEDICAL RECORDS TECHNOLOGY(DMRT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100**

QP CODE: 6141, MEDICAL TERMINOLOGY

SHORT NOTES – ANSWER ANY EIGHT

8X5=40

1. Define adjective suffixes, noun suffixes and diminutive suffixes with one example each.
2. Name the clinical divisions of abdomen.
3. Define prefix, suffix and roots and give one example for each.
4. Define Fracture and what are the different types of fracture
5. Define the Directional Terms: a) Superficial b) Abduction c) Distal
6. Define Stasis and Epistaxis
7. Sources of Medical Terminology
8. Name five planes of the body
9. Eponyms and Homonyms
10. Define Phobia and write any three phobias.

SHORT ANSWERS -

20X3=60

11. Give the Meaning for the colours a) Lividus b) Polios c) Ruber
12. Write the term for the colours a) White b) Yellow c) Golden
13. Give the meaning for the numerical a) Bini b) Mega c) Octo
14. Write the term for the numerical a) First b) Seven c) Four
15. Write the meaning of a) Acrophobia b) Cynophobia c) Cypridophobia
16. Write the Phobia for a) fear of colours b) Fear of water c) Fear of old age
17. Give the meaning for the prefix a) Dia b) Ante c) Hyper
18. Give the meaning for the suffix a) Ectasis b) Pathy c) emia
19. Give the meaning for the operative suffix a) Plasty b) Scopy c) tripsy
20. Give the meaning for the symptomatic suffix a) penia b) Algia c) Genic
21. Give the meaning for the roots a) Angio b) Glyco c) Hepat
22. Define the Medical term a) Apnea b) Antepartum c) Dysuria
23. Define the Operative term a) Gastrectomy b) Orchiopexy c) Rhinoplasty
24. Expand the abbreviation a) ICSOL b) TAH c) GOO
25. Differentiate between Addiction & Adduction
26. Differentiate between Bradycardia & Tachycardia
27. a) Inflammation of the heart is called -----
b) Ductless gland above the kidney is called -----
c) Formation of stones in the kidney is called -----
28. Define the term a) Aponia b) Aphasia c) Anorexia
29. Define the term a) Lithotripsy b) Hepatosplenomegaly c) Rhinoplasty
30. Define the term a) Arthrodynia b) Spondylitis c) cholelithiasis

**KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION(REGULATION) AUTHORITY
PARA MEDICAL BOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
II YEARDIPLOMA/III YEAR CERTIFICATE COURSE IN DIALYSIS TECHNOLOGY(DDT)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90**

QP CODE: 3151,FUNDAMENTALS OF HAEMODIALYSIS & COMPONENTS

LONG ESSAYS – ANSWER ANY TWO

2×10=20

1. Describe in detail regarding dialysis solution preparation including Disinfection of machine.
2. Describe Ultra filtration in Acute Renal Failure and Chronic Renal Failure patient.
3. Define the three main principles of dialysis. Define, write the steps of measurement, the formulae for calculation and the interpretation of urea reduction ratio and Kt/V in the assessment of adequacy of dialysis.

WRITE SHORT NOTES ON ANY TEN

10×5=50

4. Initiation of Haemodialysis.
5. Regional anticoagulation.
6. Therapeutic Apheresis.
7. Dialyzer reaction.
8. Discounting dialysis and Saline Rinse.
9. Water treatment plant
10. Various alarms in Haemodialysis machines.
11. Two methods of Heparin Administration.
12. Sterilization.
13. Write about special precautions when initiating haemodialysis for pregnant woman.
14. Artificial Kidney.
15. Draw the diagram and describe dialysis fluid circuit of haemodialysis apparatus.

WRITE SHORT ANSWERS

10×2=20

16. Two types of EPO
17. Two causes for nausea during dialysis.
18. Normal pulse and blood pressure.
19. What are the cardiac complications in CKD patients.
20. Deionization.
21. Mass transfer area coefficient.
22. Activated partial thromboplastic time (APTT).
23. Define ultrapure water.
24. Two indications to start dialysis.
25. Surface area and priming volume of dialyzer.

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IIIYEAR DIPLOMA IN DIALYSIS TECHNOLOGY(DDT)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE:6151, DIALYSIS-1

SHORT NOTES – ANSWER ANY EIGHT

(8x5=40)

1. Acute Renal Failure with its stages.
2. Write on any two of the following considering renal diet of HD patients:-
a)Sodium b)Fluid c)Phosphorous d)Proteins
3. What are the points to be kept in mind while charting in case of hemodialysis patient?
4. Safety mechanisms existing in Hemodialysis machines.
5. Sustained low efficiency dialysis.
6. Various anticoagulation techniques in hemodialysis.
7. Management of cardiac arrest during hemodialysis.
8. Evaluation and investigations for patients for AVF creation.
9. What is the role of the following in HD:-
a) UF profiling b) Sodium Profiling c) Temperature Profiling d) Duration of HD
10. The etiology, signs and symptoms and treatment of DDS.

SHORT ANSWERS

(20x3=60)

11. Steal Syndrome
12. Convection
13. Air Embolism
14. Hepatitis B infection
15. Pseudoaneurysm
16. Disinfection of Dialysis Unit
17. Heparin free dialysis
18. Dialysate Delivery system
19. AVG
20. Adequacy of Hemodialysis
21. Disadvantages of manual dialyzer reuse
22. Sodium control in CKD patient on HD
23. Regional Heparinization
24. URR
25. Erythropoiesis
26. SCUF
27. Blood Leak Alarm
28. Deionizer system in RO plant
29. High Flux hemodialysis membranes
30. Rule of six in AV Fistula

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PARA MEDICAL BOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
II YEARDIPLOMA/III YEAR CERTIFICATE COURSE IN OPHTHALMIC TECHNOLOGY (DOT)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 3161, OPHTHALMOLOGY-1

LONG ESSAYS (ANSWER ANY TWO)

10 × 2 = 20 MARKS

1. Pre-operative evaluation for cataract surgery. Add a note on setting trolley for cataract surgery.
2. Define ametropia. Mention the types of surgical management of refractive errors.
3. Write in detail about slit lamp.

SHORT NOTES (ANSWER ANY TEN)

5 × 10 = 50 MARKS

4. Pterygium surgery.
5. Amblyoscope.
6. Write briefly on static perimetry.
7. Management of aphakia.
8. Jacksons cross cylinder and its uses.
9. Direct ophthalmoscopy
10. Describe briefly aseptic precautions of operation theatre and sterilization of instruments.
11. Management of chronic dacryocystitis.
12. Chalazion surgery
13. Maintenance of tonometer.
14. Add a note on bedmaking, preparation of eye, and ocular bandaging.
15. Describe various routes of drug administration in ophthalmology.

SHORT ANSWERS

2 × 20 = 20 MARKS

16. Snellen's visual acuity charts.
17. Write a short answer on spectacle magnifiers.
18. Pseudo dichromatic plates.
19. Duochrome test.
20. Focimeter (lensometer).
21. LASIK
22. Pin hole test and its importance
23. IPD and its importance.
24. Near vision charts.
25. Photochromic lenses.

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III YEAR DIPLOMA IN OPHTHALMIC TECHNOLOGY (DOT)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 6161, OPHTHALMOLOGY-1

SHORTNOTES: ANSWER ANY EIGHT

8x5=40

1. Define fumigation. Describe the methods of Fumigation of Operation theatre.
2. Describe the principle of starting and care of Intravenous line.
3. Name the parts of Ophthalmic Operating Microscope. How to take care of optics and electrical connections of microscope?
4. Types of chemical sterilization.
5. Define CSSD and its function.
6. Direct Ophthalmoscope its parts, image characters and function.
7. Describe the ways of segregation and disposal of OT waste.
8. Laying of OT trolley for cataract surgery.
9. Describe the methods of packing of sterilization bins and to apply indicators for autoclave.
10. Uses of GA in Ophthalmology and various drugs used in GA.

SHORTANSWERS

20x3=60

11. Commonly used irrigating fluid in eye surgery.
12. Uses of suction apparatus.
13. Three indication of suture in eye surgery.
14. Two uses of Glucometer.
15. Types of Retinoscope.
16. Cleaning of Ophthalmic instruments.
17. Three Instruments used in Keratoplasty.
18. Three Instruments used in lid surgery.
19. Caring of foot switch of operating microscope.
20. Uses of phaco machine.
21. Parts of Anaesthesia machine.
22. Endo tracheal tube and its uses.
23. Steps used in gloving.
24. Steps of Scrubbing.
25. Two uses of Trail set.
26. A scan Biometer.
27. Calibration of Tonometer.
28. Method of eye banking.
29. BP checking.
30. Trail frame.

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PARA MEDICAL BOARD,BENGALURU**

SUPPLEMENTARY EXAMINATION, APRIL - 2023

II YEARDIPLOMA/III YEAR CERTIFICATE COURSE IN DENTAL MECHANICS(DDM)

TIME: 1Hrs 30Mins (RS -1 SCHEME)

MAX. MARKS: 45

QP CODE:3171, COMPLETE DENTURES

LONG ESSAY

1X10=10

1. Define dental cast and write different types and parts of the cast.

WRITE SHORT NOTES

5X5=25

2. Posterior teeth types.
3. Principles of teeth selection.
4. Compression moulding technique.
5. Difference between acrylic and porcelain teeth.
6. Rebasing

WRITE SHORT ANSWERS

5X2=10

7. Materials used for repair of denture
8. Define immediate denture.
9. Define balanced occlusion
10. Uses of record base
11. Curve of spee

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
III YEARDIPLOMA IN DENTAL MECHANICS(DDM)
TIME: 1Hrs30Mins (RS -2 SCHEME) MAX. MARKS: 50**

QP CODE:6171, COMPLETE DENTURES

Short Notes, Answer Any Four Questions

4x5 = 20

- 1) Immediate Dentures
- 2) Mean value articulator
- 3) Compression moulding technique
- 4) Posterior palatal area
- 5) Principles of teeth arrangement

Short Answers

10x3 = 30

- 6) Different types of polishing agents used in dentistry
- 7) Special tray
- 8) Repair of denture
- 9) Curve of Spee
- 10) Acrylic teeth
- 11) Flasking and Deflasking
- 12) Buccal shelf area
- 13) Relining
- 14) Beading and boxing
- 15) Denture base materials

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN DENTAL HYGIENE (DDH)
TIME: 1 Hrs 30Mins (RS -1 SCHEME) MAX. MARKS: 45**

QP CODE:3181, DENTAL HYGIENE & ORAL PROPHYLAXIS

LONG ESSAY

1X10=10

1. Define and classify calculus. Write difference between supragingival and subgingival calculus.

WRITE SHORT NOTES

5X5=25

2. Objectives of dental hygiene
3. Extrinsic and intrinsic dental stains
4. Clinical features of gingivitis
5. Stages of dental plaque formation
6. Periodontal abscess

WRITE SHORT ANSWERS

5X2=10

7. Oral cancer
8. Fluoride varnish
9. Interdental brush
10. Gingival sulcus
11. Periodontal probe

KARNATAKA NURSING & PARA MEDICAL SCIENCE SEDUCATION(REGULATION) AUTHORITY
PARA MEDICAL BOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
III YEAR DIPLOMAIN DENTAL HYGIENE (DDH)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE:6181,ETIOLOGY AND PATHOGENESIS OF PERIODONTAL DISEASE

SHORT NOTES. ANSWER ANY EIGHT QUESTIONS

8X5=40

1. Principal fibres of periodontal ligament
2. Macroscopic features of gingiva.
3. Stages of dental plaque formation
4. Theories of mineralization of calculus
5. Periodontal pocket
6. Acute herpetic gingivostomatitis
7. Chronic periodontitis
8. Stages of gingivitis
9. Gingival recession
10. Functions of saliva

SHORT ANSWERS

20X3=60

11. Cemento enamel junction
12. Bundle bone
13. Composition of saliva
14. Attached gingiva
15. Name periodontal pathogens.
16. Food impaction
17. Pericoronitis
18. Mode of attachment of calculus
19. Functions of periodontal ligament
20. Gingival abscess
21. Microscopic feature of keratinized mucosa
22. Supra and subgingival calculus
23. Periodontal abscess
24. Acquired pellicle
25. Cellular cementum
26. Pregnancy gingivitis
27. Intrinsic stains
28. Classify calculus
29. Haversian system
30. Gingival sulcus.

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
II YEAR DIPLOMA IN PHYSIOTHERAPY (DPT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE:5191 SECTION A: PATHOLOGY

SHORT ESSAY – ANSWER ANY FOUR **4x5=20**

1. Define Embolism. Discuss in detail various types of embolism.
2. Discuss the etiopathogenesis of Pneumonia.
3. Classify viral hepatitis. Discuss in detail about chronic hepatitis.
4. Define necrosis. Classify necrosis with examples.
5. Define Anaemia. Discuss laboratory investigations in anaemia.

SHORT NOTES **10x3=30**

6. Tetralogy of Fallot
7. Metaplasia.
8. Kwashiorkor
9. Gross and microscopy of Chronic venous congestion of liver
10. Lepromatous leprosy.
11. Gouty arthritis.
12. Types of gall stones.
13. Difference between Tuberculous meningitis and Pyogenic meningitis.
14. List the factors affecting wound healing.
15. Risk factors for peptic ulcer.

QP CODE:5192 SECTION B: MICROBIOLOGY

SHORT NOTES – ANSWER ANY FOUR **4x5=20**

16. List organisms causing meningitis. Lab diagnosis of meningitis .
17. Neat labelled diagram of Antibody
18. Hot air oven
19. Type IV hypersensitivity
20. Universal precautions

SHORT ANSWERS **10x3=30**

21. Name 3 sexually transmitted disease
22. List 3 hospital acquired infections
23. Name 3 Gram negative bacilli
24. Passive immunity
25. Name 3 chemical disinfectants used in the hospitals
26. Name 3 capsulated bacteria
27. Name 3 bacteria causing wound infections
28. Name 3 bacteria causing UTI
29. Name 3 motile bacteria
30. Name 3 Zoonotic diseases

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PARA MEDICAL BOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
FIRST YEAR ALL CERTIFICATE COURSES
TIME: 1Hrs 30 Mins (RS -1 SCHEME) MAX. MARKS: 45

QP CODE: 1101,PHYSICS

LONG ESSAY(ANSWER ANY ONE)

10 X 1 = 10

1. Define Energy. State the law of conservation of energy and explain with respect to a freely falling body.
2. State ohm's law. Explain combination of resistances in series and in parallel

SHORT NOTE (ANSWER ANY FIVE)

5 X 5 = 25

3. Viscosity
4. Longitudinal and Transverse waves
5. Coulomb's law
6. Nuclear reactor
7. Lens
8. Artificial satellite
9. Thermometer and its types

WRITE SHORT ANSWER

5 X 2 = 10

10. Unit of Force and Power
11. Acceleration
12. Semiconductors
13. Dispersion
14. Mass and Weight

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
FIRST YEAR ALL DIPLOMA COURSES
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 4101, PHYSICS

Short notes. Answer any EIGHT questions.

8 x 5 = 40

1. Differentiate between Fundamental units and Derived units with examples.
2. What is Radioactivity? Sketch the radiations emitted by a radioactive material.
3. State and explain Bernoulli's theorem. Write the application.
4. State Newton's first law of motion with examples.
5. Match the following

a)Centrifugal force	$\frac{mv^2}{r}$
b)Kinetic energy	$m \times a$
c)Pascal's law	Buoyancy
d) Archimedes principle	Hydraulic brake
e)Force	$\frac{1}{2}mv^2$

6. State law of conservation of energy with example.
7. Define sound. How does sound propagate?
8. What is surface tension? Give two effects of surface tension.
9. Sketch structure of an atom and write the components.
10. Multiple choice questions
 - a) Momentum of an object with mass 'm' and velocity 'v' is
 - i) mv^2
 - ii) $(mv)^2$
 - iii) $\frac{1}{2}mv^2$
 - iv) mv
 - b) SI unit of work is
 - i) Watt
 - ii) Newton
 - iii) Joule
 - iv) Kilogram
 - c) Formation of a rainbow is an example of
 - i) Reflection
 - ii) Refraction
 - iii) Dispersion
 - iv) Interference
 - d) Nucleus of an atom is made up of
 - i) Electrons+Protons
 - ii) Electrons+Neutrons
 - iii) Protons+Neutrons
 - iv) Electrons+Protons+Neutrons
 - e) Acceleration of a body is rate of change of
 - i) Distance travelled
 - ii) Velocity
 - iii) Speed
 - iv) Displacement

P.T.O

Short answers**20 x 3 = 60**

11. Define current and write its units.
12. State Newton's third law of motion with two examples.
13. Write properties of cathode rays.
14. Define medical gas and write the uses.
15. Write characteristics of image formed by plane mirror.
16. State Pascal's law and give one example.
17. Define Amplitude and Frequency of a wave with units.
18. What is Capacitor? Explain with sketch.
19. State and explain Charles law.
20. Fill in the blanks
 - a) Energy possessed by a body by virtue of its motion is called
 - b) Dimensions of acceleration is
 - c) Process of adding impurity to a pure semiconductor is known as
21. What is a spectrum? Explain with sketch.
22. Write circuit symbols of PNP and NPN transistor.
23. Define
 - a) Mass number
 - b) Atomic number
24. What is Nuclear fission?
25. What is principle of Colorimeter?
26. Derive an expression for effective resistance when three resistances are in series.
27. What is semiconductor? Give examples.
28. Define modulus of elasticity and mention its unit.
29. What is acceleration due to gravity? Write its value.
30. Answer in one word or in one sentence.
 - a. Why falling drops of rain are always round?
 - b. Reason for use of mercury in a thermometer.
 - c. Expand LASER.

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN MEDICAL LABORATORYTECHNOLOGY (DMLT)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 3102, PATHOLOGY

LONG ESSAY- ANSWER ANY TWO

2X10=20

- 1.Mention the different blood group systems. Write in detail – ABO blood grouping system. (2+8)
- 2.Describe the normal coagulation cascade. Mention the various tests used in coagulation disorders. (5+5)
- 3.Write the ‘principle’ and ‘staining procedure’ of Haematoxylin & Eosin stain (4+6)

SHORT ESSAY- ANSWER ANY TEN

10X5=50

- 4.Barr body test
- 5.Semen analysis – physical & microscopic examination
- 6.Selection criteria for ‘blood donor’
- 7.Coomb’s test
- 8.Bleeding time (BT) & clotting time (CT) – procedure
- 9.Microwave tissue processing
- 10.What is Biomedical waste? Write ‘colour coding system’ used in hospitals for waste disposal.
- 11.Mention ‘special stains’ done in histopathology and their uses
- 12.Frozen section– write about instrument used & technique
- 13.Osmotic fragility test
- 14.Quality control in blood banking
- 15.Bone marrow examination- various sites and the needles used

SHORT ANSWER

10X2=20

- 16.Name TWO clearing agents
- 17.Draw neat labelled diagram of Spermatozoa
- 18.Mention FOUR screening tests done in blood bank
- 19.Mention FOUR different types of haematoxylin
- 20.Name TWO anticoagulants used in blood bank
- 21.Clot retraction time
- 22.Reverse grouping
- 23.TWO uses of PAS stain
- 24.Write TWO examples for immunohistochemistry (IHC)stain
- 25.Fetal haemoglobin

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SUPPLEMENTARY EXAMINATION, APRIL - 2023

IIIYEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY(DMLT)

TIME: 3 Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE:6103, PATHOLOGY

SHORTNOTES:ANSWER ANY EIGHT

8x5=40

1. Importance of Differential Leucocyte Count and procedure
2. Biological Hospital waste management and universal precautions
3. Define and write in detail about procedure of Osmotic fragility test
4. Write about normal haemostasis, and mechanism of coagulation
5. Mention the equipments used in histopathology. Write the steps of tissue processing.
6. Write short notes on Donor selection in blood bank
7. Different sites of bone marrow aspiration. Indication and contraindication
8. Mention the types and procedure of cross matching
9. Write short note on Prothrombin time
10. Mention different types of haematoxylin stain. Write the steps of H & E staining Procedure

SHORTANSWERS

20x3=60

11. Importance of Calibration of Laboratory Instruments
12. Principle of Microwave tissue processing
13. Quality control in histopathology
14. What is laboratory Information System?
15. What is direct coomb's test
16. Frozen section
17. Mention three special stains used in Histopathology and its uses
18. Forward blood grouping
19. Enumerate different types of Mounting jars
20. Fresh Frozen Plasma
21. Role of technician in transfusion reaction
22. Laboratory Anticoagulants
23. Procedure for disposal of expired blood
24. List three errors in section cutting and its corrections
25. Inventory Management in Blood bank
26. Disadvantages of formalin
27. Importance of bleeding time
28. List the screening tests for donors
29. Storage of blood components in blood bank
30. Mounting Media in Histopathology

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SUPPLEMENTARY EXAMINATION, APRIL - 2023

IIYEARDIPLOMA/III YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR (DHI)

TIME: 3 Hrs (RS -1 SCHEME)

MAX. MARKS: 90

QP CODE: 3112, COMMUNITY MEDICINE PAPER-2

LONG ESSAY-ANSWER ANY TWO

2x10=20

- 1 Define Antenatal care. Write the Objectives of Antenatal care and add a note on Warning signs.
- 2 Discuss the Health problems of the Elderly. Add a note on Social Security services for elderly.
- 3 Define health education. Discuss in detail Principles of health education

SHORT NOTES -ANSWER ANY TEN

10x5=50

- 4 Safe period (rhythm method)
- 5 Postnatal Complications
- 6 Hazards of obesity
- 7 Juvenile Delinquency
- 8 Anganwadi centre
- 9 Causes for Infant mortality rate
- 10 Kangaroo Mother care
- 11 Demographic cycle
- 12 Child abuse
- 13 Types of communication
- 14 Nutritional problems in children
- 15 Vasectomy

SHORT ANSWERS

10x2=20

- 16 Group Discussion
- 17 Domiciliary care
- 18 Eligible couple
- 19 Geriatric health problem
- 20 Internet usage in Health
- 21 Growth rate
- 22 Low birth weight
- 23 Condom
- 24 Crude Birth Rate
- 25 Mala- D

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SUPPLEMENTARY EXAMINATION, APRIL - 2023

IIIYEARDIPLOMA IN HEALTH INSPECTOR (DHI)

TIME: 3 Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE: 6113, COMMUNITY MEDICINE PAPER-2

SHORTNOTES:ANSWERANYEIGHT

8x5=40

1. Describe the causes of infant mortality in India. Add a note on its prevention and control.
2. Geriatric health problem
3. Role of medical officer in PHC
4. Demography cycle
5. Services in adolescent health clinics
6. Uses of growth chart
7. Complications of post natal period
8. School health programme
9. ASHA
10. First Aid

SHORTANSWERS

20x3=60

11. Maternal Mortality Rate
12. Three benefits in ESI scheme
13. First aid in case of dog bite
14. World Health day Theme 2022
15. Drug used in leprosy
16. Danger signals in intranatal care
17. Group Discussion
18. Exclusive Breast Feeding
19. Mass media of communication
20. Audio Visual aids
21. Growth rate
22. Net reproduction rate.
23. Crude birth rate
24. Uses of condom
25. Antenatal advice
26. First aid in Injured victims in disaster
27. Health problems in adolescents
28. Post natal complications
29. Three causes for under 5 mortality
30. Permanent family planning methods

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEARDIPLOMA/III YEAR CERTIFICATE COURSE IN MEDICAL X-RAY TECHNOLOGY(DMXT)
TIME: 3Hrs (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 3122, RADIOGRAPHY INCLUDING MEDICAL RECORDS

LONG ESSAY – ANSWER ANY TWO

2X10=20

1. Describe various types of records maintained in X-ray department and its uses
2. What is Hysterosalpingogram ? Describe the procedure in detail and indications of HSG
3. What is T –tube cholangiography? Explain the procedure in detail.

WRITE SHORT NOTES ON ANY TEN

10X5=50

4. Townes view
5. Barium enema
6. MCU
7. Chest special view
8. Judet's view
9. Knee arthrography
10. Cerebral Angiography
11. Phlebography
12. Classification of contrast media and adverse reaction of contrast media
13. RGU
14. Dacrocystography
15. AUG

WRITE SHORT ANSWERS

10X2=20

16. Indication for abdominal erect
17. Carpal tunnel syndrome
18. Indication of Barium Swallow
19. Radiography view of foot
20. Carpal bones
21. Emergency drugs in radiology
22. BALL Catches view
23. Apicogram
24. Consent form
25. Flexion and extension view of c-spine

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIIYEAR DIPLOMA IN MEDICAL IMAGING TECHNOLOGY(DMIT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 6123
SPECIAL PROCEDURES, RADIOGRAPHIC PHOTOGRAPHY & MEDICAL
RECORDS

SHORT NOTE- ANSWER ANY EIGHT

8X5=40

1. What is Barium and write a short note about barium studies and their uses
2. Write about HSG
3. Role of Magnetic Resonance Imaging in CNS investigation
4. Bronchography
5. Micturating Cysto Urethrography
6. Small bowel enema
7. Per operative cholangiography.
8. Myelography
9. Interventional vascular radiography
10. Radio isotope scanning in urinary system

SHORT ANSWERS

20X3=60

11. Medical records in X-Ray Department
12. Tomography
13. Fistulography
14. Subtraction Radiography
15. RGU
16. Percutaneous catheterization
17. Types of contrast media used in Radiological investigations
18. IVU
19. Management of iodinated contrast extravasations
20. ERCP
21. Arthrography
22. Sialography
23. Sinography
24. Dacrocystography.
25. Mammography
26. Foreign body localization
27. Mobile radiography
28. Theatre radiography
29. Forensic radiography
30. Barium Swallow

KARNATAKANURSING&PARAMEDICALSCIENCESEDUCATION(REGULATION)AUTHORITY
PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN OPERATION THEATRE
TECHNOLOGY(DOTT)
TIME: 3Hrs (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 3132, OPERATIVE PROCEDURE

LONG ESSAY – ANSWER ANY TWO

2X10=20

1. Explain the procedure of appendicectomy with diagram. Write about complication of appendix surgery.
2. Explain causes for chest trauma. Explain ICD procedure with diagram.
3. Define hemorrhagic shock. Explain management of hemorrhagic shock.

10X5=50

WRITE SHORT NOTES ON ANY TEN

4. Wound healing
5. Types of hernia with diagram
6. Organ transplantation
7. Common operations in the urinary tract
8. Abdominal incisions
9. Amputation
10. Upper gastrointestinal Endoscopy
11. Skin grafting
12. Cast application
13. Repair of tendon
14. Gangrene toe
15. Angioplasty

10X2=20

WRITE SHORT ANSWERS

16. Advantage of Laparoscopy
17. Craniotomy
18. Circumcision
19. Lipoma
20. Bladder stone
21. Suction drain
22. Tissue holding forceps
23. Bronchoscopy
24. Chemotherapy
25. Wound disruption

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIIYEAR DIPLOMA IN OPERATION THEATRE & ANAESTHESIA TECHNOLOGY(DOT & AT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 6133, OPERATIVE PROCEDURE

SHORT NOTES – ANSWER ANY EIGHT QUESTIONS

8X5=40

1. Complications of laparoscopic cholecystectomy
2. Complications of colostomy
3. Tonsillectomy
4. Lipoma
5. Repair of tendons and ligaments
6. Complications of thyroidectomy
7. Appendectomy
8. Hernioplasty
9. Fistula in ano
10. Indications for hysterectomy

20X3=60

SHORT ANSWERS

11. Fracture Femur
12. Scrotal Abscess
13. Indications of Ultra-sonography
14. External Hemorrhoids
15. Abdominal incisions
16. Mastectomy complications
17. Suction drain
18. Foreign body in hand
19. X-ray erect abdomen
20. Episiotomy and its complications
21. CT Scanning in head injury
22. Burst Abdomen
23. Fibroadenoma of breast
24. Indications for gastrectomy
25. Lymph node biopsy
26. Endoscopy
27. Cataract surgery
28. Preparation of patient for emergency caesarean section
29. Aspirations
30. Oro Pharyngeal airway

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEARDIPLOMA/III YEAR CERTIFICATE COURSE IN MEDICAL RECORDS
TECHNOLOGY(DMRT)

TIME: 3Hrs (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 3142, HOSPITAL ADMINISTRATION

LONG ESSAY-ANSWER ANY TWO

2x10=20

- 1 Discuss the advantages and drawbacks in the functioning of Medical College Hospitals.
- 2 “Medical care – an Industry” Explain with suitable examples. Add a note on administrative skills
- 3 What is Bio-medical waste (BMW)? Discuss in detail the steps involved in segregation of BMW. What steps can be taken to improve present scenario in Bio-medical waste management in hospitals of India?

SHORT NOTES -ANSWER ANY TEN

10x5=50

- 4 Medical ethics.
- 5 Team work.
- 6 Medical Audit.
- 7 History of hospitals in India.
- 8 Enumerate various hospital committees.
- 9 Control of medical profession.
- 10 Mudaliar committee.
- 11 Delegation of powers.
- 12 House Keeping Department.
- 13 Staffing pattern of Radiology department.
- 14 Two bin system.
- 15 Health insurance

SHORT ANSWERS

10x2=20

- 16 Medical social worker.
- 17 Indian Red Cross.
- 18 Ambulance services.
- 19 Hospital Sociology.
- 20 Problems faced in a Rural Hospital.
- 21 Purchase committee.
- 22 Functions of Pathology Department.
- 23 Disaster cycle.
- 24 Resources.
- 25 Evaluation.

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIIYEAR DIPLOMA IN MEDICAL RECORDS TECHNOLOGY(DMRT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 6143, HOSPITAL ADMINISTRATION

SHORT NOTES:ANSWER ANY EIGHT

8x5=40

1. Bed occupancy rate and Bed turnover ratio
2. Functions of Nursing Superintendent.
3. Quality control aspects in hospital.
4. Patient's rights and responsibilities
5. Explain about outcome indicators in a district hospital.
6. Briefly explain the organization of casualty and emergency services.
7. Planning of NICU in a district hospital
8. Explain Hospital acquired infection control committee (HICC).
9. Explain the process of drug indenting in a district hospital?
10. Standard Operating Procedure

SHORT ANSWERS

20x3=60

11. Health Insurance.
12. Dress code in hospital.
13. Enumerate three committees in hospital.
14. Functions of an electrician in hospital.
15. High alert drugs in pharmacy.
16. Medical Record Officer
17. Sewage treatment plant
18. Components of a Radiology Unit
19. Fire Safety in Hospital
20. Functions of Blood Bank
21. Length of Stay
22. Helpdesk in hospital - Uses
23. Patient feedback surveys
24. Hospital death rate
25. Administrative organization in a district hospital
26. Average Daily Census
27. Electric generators in hospitals.
28. Critical Value
29. ICU
30. Purchase Committee

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEARDIPLOMA/III YEAR CERTIFICATE COURSE IN DIALYSIS TECHNOLOGY(DDT)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 3152
RENAL REPLACEMENT THERAPY OTHER THAN HAEMODIALYSIS &
PATIENT TEACHING

LONG ESSAYS – ANSWER ANY TWO

2×10=20

1. What are the types of dialysis that can be done in critically ill(ICU) patients? Write a note on sustained low – efficiency dialysis(SLED).
2. Anatomy and Physiology of Peritoneum.
3. Composition of Dialysis Team and Functions of each member of Team.

SHORT NOTES - ANSWER ANY TEN

10×5=50

4. What are the various solutions in Peritoneal dialysis.
5. Mention indications of plasmapheresis.
6. Causes of Seizures in Dialysis patient.
7. Maintenance of record book of patients of Hemodialysis.
8. Write a note on Wearable artificial kidney.
9. Write a note on Hemoperfusion and its clinical applications.
10. Write about hemodiafiltration, technique, indications and advantages.
11. Discuss about nutritional support and rehabilitation of a hemodialysis patient.
12. Dialysis for poisoning.
13. Contraindications for peritoneal dialysis.
14. Replacement fluid in Plasmapheresis.
15. What is peritoneal equilibration test? What is its clinical signification.

WRITE SHORT ANSWERS

10×2=20

16. Icodextrin.
17. Two antihypertensive drugs.
18. Normal values of Sodium and Potassium.
19. Anatomy of kidney
20. Two disinfectants used for dialyzer reprocessing.
21. Characteristics of high transporters.
22. Symptoms of peritonitis
23. Slow continuous ultrafiltration.
24. Name two antifungal.
25. Causes of hypotension in hemodialysis

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIIYEAR DIPLOMA IN DIALYSIS TECHNOLOGY(DDT)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 6153, DIALYSIS PAPER-2

SHORT NOTES – ANSWER ANY EIGHT

(8x5=40)

1. Write about the aseptic technique to be followed in a PD exchange
2. Write about non – infectious complications in CAPD
3. Write short notes on administration of the following drugs during CAPD:-
(a) Heparin (b) Insulin
4. Describe the Gross Anatomy of human peritoneum
5. What is Exit Site infection? What are its characteristics and treatment?
6. Write a short note on the parts of a common CAPD catheter with diagram.
7. What are the precautions and steps to be followed in administering FFP?
8. Describe the indications for CRRT in an ICU setup. Name any four modes of CRRT.
9. What is Plasmapheresis? Draw neatly the EC Circuit of the procedure and label.
10. Write a short note on the dialysis team and functions of each member of the team.

SHORT ANSWERS

(20x3=60)

11. Solutions for PD
12. Demerits of PD over HD
13. CAPD vs. APD
14. Hydrothorax
15. Bleeding or blood tinged dialysate
16. T – cells
17. Vesicoureteral reflux
18. Renal artery stenosis
19. Anticoagulation in CRRT
20. CVP / Central line
21. Peritoneal Eosinophilia
22. Hemoperfusion
23. Dietary Fluid control in CAPD
24. Anti - anaemic Drugs used for CKD patients
25. Complications related to peritonitis
26. LaparoscopicNephrotomy
27. Hyperacute rejection in renal transplant
28. Inotropes
29. Acute tubular Necrosis
30. Immunological tests for renal transplant

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN OPHTHALMIC TECHNOLOGY(DOT)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 3162, OPHTHALMOLOGY PAPER-2

LONG ESSAYS (ANSWER ANY TWO) 2X10 = 20

1. Describe global initiative for prevention of blindness.
2. Strategic plan for vision 2020, the right to sight in India.
3. Describe School screening in detail

SHORT NOTES (ANSWER ANY TEN) 10X5 = 50

4. Describe the structure and functions of DBCS.
5. Describe the community ophthalmology practices at primary level.
6. Alphabetical Index
7. Functions of eye bank.
8. Preparation of patients for cataract surgery.
9. Cataract consent form.
10. Organisation of eye camp.
11. WHO classification of vitamin A deficiency.
12. What is rate, ratio, numerical index and alphabetic index.
13. Categories of percentages of visual disabilities.
14. Vocational training of blind
15. Transportation of donor eyes

SHORT ANSWERS 10X2 = 20

16. Blood pressure.
17. Name facts about eye donations.
18. Legal blindness.
19. Eye donations.
20. Three causes of incurable blindness.
21. Epidemiology of POAG.
22. Geographic distribution of global blindness.
23. Onchocerciasis.
24. Vision for the future.
25. Counselling for cataract surgery.

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIIYEARDIPLOMA IN OPHTHALMIC TECHNOLOGY(DOT)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 6163, OPHTHALMOLOGY PAPER-2

SHORTNOTES:ANSWERANYEIGHT

8x5=40

1. What are consent forms? Describe the contents of cataract surgery consent forms
2. Methods to identify shallow anterior chamber? Write 2 causes of shallow AC.
3. What is Rehabilitation of blind? Mention the types of rehabilitation.
4. Describe the role of eye camps.
5. Importance of fundus evaluation in patients before cataract surgery?
6. Procedure of lacrimal syringing and its interpretation
7. Role of protective Eye wear at work place
8. School health screening program
9. Facts and myth of Eye donation
10. Role of Biometry for IOL power calculation.

SHORTANSWERS

20x3=60

11. Two methods to motive public for Eye donation
12. Three side effects of indiscriminate use of Topical steroids
13. Three methods of storage of Donor cornea
14. Three causes of sudden painless loss of vision
15. Three causes of loss of window reflex of Cornea
16. Emergency resuscitation
17. Two drugs used in sub conjunctival injection
18. Charts used to record distant vision
19. Mention 3 types of anesthesia used in Ophthalmology
20. Define WHO definition of the word blindness
21. Three oral pain killers used in Ophthalmology
22. Name three anti Glaucoma drugs
23. Name three steroids used in Ophthalmology
24. Name Three Antibiotics used in Ophthalmology
25. Two causes of Lagophthalmos
26. How to identify corneal ulcer
27. Three causes of proptosis
28. Two goals of DBCS
29. OT register uses
30. Two causes of swelling of eye lids

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEARDIPLOMA/III YEAR CERTIFICATE COURSE IN DENTAL MECHANICS(DDM)
TIME: 1Hrs30Mins (RS -1 SCHEME) MAX. MARKS: 45

QP CODE:3172

PARTIAL DENTURES, ORTHODONTIA, MAXILLOFACIAL- PROSTHESIS

LONG ESSAY

1 X 10 = 10

1) What is an alloy? Mention the various alloys used in prosthodontics. Write in brief the fabrication procedure of cast partial denture.

WRITE SHORT NOTES

5 X 5 = 25

- 2) Principles of Sprue designing
- 3) Obturator
- 4) Casting defects
- 5) Pindex System
- 6) Mention different retainers used in fixed partial dentures.

WRITE SHORT ANSWERS

5 X 2 = 10

- 7) Pickling
- 8) Gingivally approaching clasp
- 9) Arbitrary blockout
- 10) Mention different die materials used
- 11) Centrifugal casting machine

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIIEAR DIPLOMA IN DENTAL MECHANICS (DDM)
TIME: 1Hrs30Mins (RS -2 SCHEME) MAX. MARKS: 50**

QP CODE:6172

PARTIAL DENTURES, ORTHODONTIA, MAXILLOFACIAL- PROSTHESIS

SHORT NOTES, ANSWER ANY FOUR

4x5 = 20

- 1) Write in brief steps in fabrication of cast partial denture
- 2) Applegate rules
- 3) Direct retainers
- 4) Parts of Fixed partial denture
- 5) Sprue designing

SHORT ANSWERS

10x3 = 30

- 6) Minor connector
- 7) Maxillary major connectors
- 8) Uses of Surveyor
- 9) Labial bow
- 10) I Bar clasp
- 11) Obturator
- 12) Connectors in FPD
- 13) Sanitary pontic
- 14) Feeding plate
- 15) Pindex system

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEARDIPLOMA/III YEAR IN DENTALHYGIENE(DDH)
TIME: 1 Hrs 30Mins (RS -1 SCHEME) MAX. MARKS: 45**

QP CODE:3182

**DENTAL HEALTH EDUCATION, SOCIAL AND PUBLIC HEALTH & PREVENTIVE
DENTISTRY**

LONG ESSAY

1X10=10

1. Describe in detail prevalence and prevention of dental caries

WRITE SHORT NOTES

5X5=25

2. Aims and objectives of dental health education
3. Oral health in handicapped
4. Mechanical plaque control
5. Community dentistry
6. Habits and their effect on dental structures

WRITE SHORT ANSWERS

5X2=10

7. Water supply to community
8. Chlorhexidine mouth rinse
9. Powered tooth brush
10. Child counselling
11. Environmental health

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIIYEAR DIPLOMAIN DENTAL HYGIENE (DDH)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE:6183

DIAGNOSIS AND TREATMENT OF PERIODONTAL DISEASE

SHORT NOTES. ANSWER ANY EIGHT QUESTIONS

8X5=40 MARKS

1. Principles of periodontal instrumentation
2. Mouth breathing habit
3. Case history recording
4. Ultrasonic scaler.
5. Define dental hygiene. Write objectives of dental hygiene.
6. Management of medically compromised patients
7. Chemical plaque control measures.
8. Trauma from occlusion
9. Sutures and periodontal dressing.
10. Oral hygiene index simplified.

SHORT ANSWERS

20X3=60 MARKS

11. Shock.
12. Diabetes mellitus
13. Management of haemophilia patients
14. Management of pregnant patients.
15. Prognosis.
16. Dentifrices
17. Oral irrigation devices
18. Instrument maintenance
19. Tongue trusting habit
20. Bruxism
21. Plaque control around dental implant
22. Asthma patient management
23. Management of paediatric patient
24. Basic sharpening principles
25. Hypertensive patient management
26. Interdental cleaning aids
27. Powered tooth brushes
28. Bass method of tooth brushing
29. Rules and regulation of dental hygiene
30. Treatment plan.

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEARDIPLOMAIN PHYSIOTHERAPY (DPT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE:5193, THERAPAUTIC EXERCISE

SHORT NOTES – ANSWER ANY EIGHT

8x5=40

1. Co-ordination exercise.
2. Contraindications of massage.
3. Types of Posture.
4. Group Exercise.
5. Suspension Therapy.
6. Aerobic exercises
7. Principles of active assisted exercise
8. Relaxation.
9. Walking Aids
10. Dynamic Exercises.

SHORT ANSWERS

20x3=60

11. Balance
12. Mulligan mobilization
13. Parts of auxiliary crutches
14. Definition of power & work
15. Isometric exercise
16. Muscle responsible for running
17. Muscle work in Squatting
18. Breathing exercises
19. Types of reflexes
20. Types of Crutch walking
21. MMT
22. Ballistic movement
23. Hydrotherapy
24. Benefits of suspension therapy
25. Properties of water
26. Isokinetic exercises
27. Muscle re-education
28. Different exercise therapy equipments
29. Gait
30. Movements of hip

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
FIRST YEAR ALL CERTIFICATE COURSES
TIME: 1Hrs 30Mins (RS -1 SCHEME) MAX. MARKS: 45

QP CODE:1102, CHEMISTRY

LONG ESSAY –ANSWER ANY ONE

1×10=10

1. Describe the preparation, properties and uses of sulphuric acid
2. Explain the preparation, properties and uses of Ethyl alcohol

WRITE SHORT NOTES ON ANY FIVE

5×5=25

3. Define carbohydrates. Give the classification with an example for each class.
4. Properties and uses sodium carbonate.
5. Use of chlorine.
6. Structure of Amino acid: a) Glycine b) Alanine c) Serine d) Aspartic acid e) Tyrosine
7. Tyndall effect and Brownian movement
8. Types of RNA and their function.
9. Define hydrocarbons. Give their classification with one example for each class.

WRITE SHORT ANSWERS

5×2=10

10. Structure of atom
11. PH values of Biological fluids
12. Normality and Molality
13. Properties of alpha particles
14. Oxytocin

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
FIRST YEAR ALL DIPLOMA COURSES
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100
QP CODE:4103, CHEMISTRY

SHORT NOTE: ANSWER ANY EIGHT

8X5=40

1. Explain the preparation of nitric acid by Ostwald's process
2. Explain a)Tyndall effect b)Brownian movement
3. Define radioactivity. Mention the properties of alpha, beta and gamma rays.
4. Define pollution. Write the strategies to control water pollution.
5. Define buffer. Explain the types of buffers with examples.
6. Define enzymes. Give the classification of enzyme with one example for each.
7. Explain the manufacture of ethyl alcohol from molasses.
8. Define matter. Mention the states and physical properties of matter.
9. Match the following

a. Acid	i. NaCl
b. Base	ii. H ₂ SO ₄
c. Salt	iii. phenolphthalein
d. Element	iv. NaOH
e. Indicator	v. Fe

10. Choose the correct answer.

- a) Red litmus paper changes into blue in a solution of ____ i)base ii) salt iii) acid iv) none of these
- b) Methane is an example for ____ i) alkene ii) alkane iii) alkyne iv) none of these
- c) The molecular formula of nitric acid is ____ i)H₂SO₄ ii)CH₃COOH iii) HNO₃ iv) CaCO₃
- d) Loss of water is called ____ i)Hydration ii)Dehydration iii)Nitration iv)Halogenations
- e) Ethene has carbon-carbon ____ i)Triple bond ii) Double bond iii) Single bond iv) None of these

SHORT ANSWERS

20x3=60

11. Plaster of paris.
12. Define a)acid. b)base. c)salt.
13. Mention the uses of hydrogen peroxide.
14. What is aqua regia? Mention its use.
15. Define a)Normality. b)Molarity. c)Molality.
16. Mention the applications of X-Rays.
17. Calculate the molecular weight of a)CH₄ b)CO. c)H₂O.
18. Acid rain.
19. Mention three uses of phenol.
20. Mention three applications of colloids.
21. Fill in the blanks.
 - i)The molecular formula of sodium chloride _____
 - ii) The substance which increases rate of reaction is called _____
 - iii) SI unit of length _____
22. Mention three uses of iodine.
23. Give the classification of amines. Mention one example for each.
24. Uses of toluene.
25. What is washing soda? Mention any two uses.
26. Name three indicators.
27. Mention the uses of calcium compounds.
28. Mention any three applications of co-ordination compounds
29. Fluorocarbons
30. Define P^H. Write Henderson's equation.

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN MEDICAL LABORATORYTECHNOLOGY (DMLT)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90
QP CODE: 3103, MICROBIOLOGY

Long assay (Answer any two)

2X10=20

26. Enumerate antigen antibody reactions. Describe precipitation reaction.(4+6)
27. Describe the morphology, pathogenesis of Neisseria gonorrhoeae. Write a note on laboratory diagnosis of gonorrhoea.(2+3+5)
28. Describe the life cycle, pathogenesis and laboratory diagnosis of Entamoeba histolytica. (3+2+5)

Short notes (Answer any ten)

10X5=50

29. Anaphylaxis
30. Venereal Disease Research Laboratory (VDRL)
31. ELISA
32. Laboratory diagnosis of cholera
33. Widal test
34. Biomedical waste management
35. Life cycle of Plasmodium falciparum
36. C-Reactive Protein test(CRP)
37. Laboratory diagnosis of Cryptococcus
38. Lepromin test
39. Laboratory diagnosis of Hepatitis B virus
40. Laboratory diagnosis of Pulmonary tuberculosis

Short answers

10X2=20

41. Name two toxins produced by Staphylococcus aureus.
42. Name two non suppurative complications of Streptococcus pyogenes infection
43. Name two intradermal tests
44. Draw a neat labelled diagram of Trichomonas vaginalis
45. Name two bacteria causing Sexually transmitted diseases(STD)
46. Significant bacteriuria
47. Name two acid fast bacilli
48. Name two concentration techniques for feces
49. Name two anaerobic bacteria
50. Name two Gram negative cocci

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIIEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY(DMLT)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE:6105, MICROBIOLOGY

SHORTNOTES:ANSWER ANY EIGHT

8x5=40

1. Discuss in detail on collection of urine sample and preservation.
2. Bio-medical waste management.
3. Antimicrobial Susceptibility Testing (AST)
4. Lab Diagnosis of Pneumococci.
5. Pathogenesis of Vibrio Cholera.
6. Trichomoniasis.
7. HIV.
8. Transportation of various samples for microbiological investigations,
9. Mycobacterium tuberculosis.
10. Lab diagnosis of fungal infection.

SHORTANSWERS

20x3=60

11. Name 3 Nematodes.
12. Name 3 DNA Viruses.
13. Widal Test.
14. Ascaris lumbricoides.
15. Candida.
16. Different tests for identification of Malaria.
17. Name 3 Motile Bacteria.
18. ELISA.
19. Name 3 infections caused by E.coli.
20. Name 3 Gram Negative Cocci.
21. Infections caused by Cryptococci.
22. BCG.
23. Hand Hygiene.
24. Hydatid cyst.
25. Diagnosis of Covid-19 virus.
26. Stool examination for Parasites.
27. Name 3 infection caused by Streptococci.
28. VDRL.
29. Name 3 infections caused by Pseudomonas.
30. Name 3 Hospital acquired infections.

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR (DHI)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 3113, COMMUNITY MEDICINE-PART III

LONG ESSAY-ANSWER ANY TWO

2x10=20

- 1 Write in detail about WHO and its role in the field of health.
- 2 Define pneumoconiosis. Mention different types. Write briefly on silicosis.
- 3 Enumerate the Various health committees in India. Write in detail about Bhore committee.

SHORT NOTES -ANSWER ANY TEN

10x5=50

- 4 Indian factory act.
- 5 Community participation.
- 6 Food and agriculture organization
- 7 ANM
- 8 Mention 5 international health agencies.
- 9 Role of ASHA in tuberculosis control.
- 10 Enumerate steps in Health Planning cycle.
- 11 Social security schemes .
- 12 Kyasanur Forest Disease.
- 13 Hospital waste management
- 14 Treatment of ARI in Children
- 15 Essential Drugs.

SHORT ANSWERS

10x2=20

- 16 Child delinquency
- 17 Rural development
- 18 Social justice
- 19 Sub centre
- 20 Genetic counselling
- 21 ASHA workers
- 22 MTP act
- 23 Panchayat Raj
- 24 Health education
- 25 Mention school health services

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
III YEAR DIPLOMA IN HEALTH INSPECTOR (DHI)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 6115, COMMUNITY MEDICINE-PART III

SHORTNOTES:ANSWERANYEIGHT

8x5=40

1. Indian Red Cross
2. Lead poisoning
3. ESI Act
4. UNICEF
5. Disaster management cycle
6. Silicosis
7. Health for all
8. Industrial accidents
9. Preparedness for Flood
10. Mother & Child protection Card

SHORTANSWERS

20x3=60

11. Bio-medical waste management at outreach immunization session
12. Ergonomics
13. Triage in disaster management
14. Pre-placement examination
15. List benefits to employees under "Employees State Insurance Act
16. FAO
17. Asbestosis
18. Voluntary health agencies
19. CARE
20. Bagassosis
21. Occupational cancers
22. World Health Day
23. Ford foundation
24. Bhore Committe
25. Psychosocial hazards at work place
26. World Bank
27. Rockefeller foundation
28. Hazards of health care waste
29. Enlist manmade disasters
30. International health regulations

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN MEDICAL X-RAY TECHNOLOGY(DMXT)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 3123, RADIOGRAPHY INCLUDING NEWER IMAGING TECHNOLOGY

LONG ESSAY-ANSWER ANY TWO

2 X 10 = 20

1. Write a note on CT-Scan principle? Explain its components of gantry?
2. Discuss briefly about principles of MRI.
3. Define ultrasonography? Explain types of transducers and note on piezoelectric effect.

WRITE SHORT NOTES ON ANY TEN

10 X 5 = 50

4. DSA
5. Portable X-ray machine
6. CT-artifacts
7. Doppler
8. Foreign body localization
9. Difference between CT and MRI scan
10. Myelography
11. CT-peripheral angiography
12. Radiopharmaceuticals
13. Fluoroscopy
14. PET
15. Videocon camera

WRITE SHORT ANSWERS

10 X 2 = 20

16. T1 and T2 weighted images.
17. CT-number
18. Write four safety measures for radiography in fluoroscopy
19. Half value layer
20. Larmour frequency
21. Draw a neat labelled diagram of Xeroradiography plate
22. Isotopes
23. View box
24. Iodine -131
25. Properties of Gamma rays

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEAR DIPLOMA IN MEDICAL IMAGING TECHNOLOGY(DMIT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100

**QP CODE: 6125, RADIOGRAPHIC PHOTOGRAPHY AND IMAGING
PROCESSING**

SHORT NOTE- ANSWER ANY EIGHT

8X5=40

1. What are the types of X-Ray films
2. Discuss the structure, speed and uses of an intensifying screen
3. Discuss in detail different types of film fault and procedures to prevent the same
4. Points to be considered while planning darkroom
5. Discuss content of developer solution
6. Describe automatic film processor
7. Formation of latent image
8. What are the Factors affecting safelight performance
9. Care and maintain of X-Ray cassettes
10. Viewing equipment magnifiers for cut films and roll films

SHORT ANSWERS

20X3=60

11. Darkroom ventilation
12. Speed of X-Ray film
13. Safe light
14. Possible damages and maintenance of an intensifying screen
15. Describe super coating of X-Ray films
16. Replenishment
17. What are X-Ray film stains
18. Beam restrictor devices
19. How to improve film resolution
20. Identification markers
21. Mention the types of intensifying screen
22. Composition of Fixer
23. What is hanger & explain types
24. Fixing time & clearing time
25. Mention the rinsing method in manual and automatic film processing
26. FFD
27. Principle of digital radiography
28. What is rapid processing
29. Spectral sensitivity
30. Layers of conventional radiographic film

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN MEDICAL
RECORDSTECHNOLOGY(DMRT)
TIME: 1Hrs30 Mins (RS -1 SCHEME) MAX. MARKS: 40

QP CODE: 3143, COMPUTER SCIENCE

LONG ESSAY ON ANY ONE

1 x 10 =10

1. What is Operating system and Softwares
2. What are the uses of computers in hospital and in MRD?

WRITE SHORT NOTES ON ANY FOUR

4 X 5 = 20

3. What is the concept of Paperless Hospital?
4. How to backup data? What are the mediums of backup store?
5. Brief the history of Computers and generations
6. What is the use of Hard disk? How it works?
7. What is RAM? What does it mean?

WRITE SHORT ANSWERS

5 x 2 = 10

8. INTERNET
9. Application Software
10. PPT
11. PDF
12. TYPES OF PRINTERS

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
II YEAR DIPLOMA IN MEDICAL RECORDS TECHNOLOGY(DMRT)
TIME: 1HR 30 MIN (RS -2 SCHEME) MAX. MARKS: 50

QP CODE: 6145, COMPUTER SCIENCE

SHORT NOTES – ANSWER ANY FOUR

4X5=20

1. Write in detail about the functional units of computer
2. Describe the role of computer in Medical Records Department
3. Difference between laser printer and dot matrix printer
4. What are the uses of computers in central admitting office
5. Write advantages and disadvantages of computer in hospital management

SHORT ANSWERS

10X3=30

6. What are the input and output devices
7. Write different types of computer
8. Application of computer
9. Hard disk
10. Storage devices
11. Key board
12. Monitor
13. Laptop
14. Internet
15. Networking

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIYEARDIPLOMA/III YEAR CERTIFICATE COURSE IN DENTALHYGIENE(DDH)
TIME: 1 Hrs 30Mins (RS -1 SCHEME) MAX. MARKS: 45**

QP CODE:3183

**OPERATING ROOM TECHNIQUE, CHAIR SIDE ASSTS &DENTAL MATERIALS , ETHICS
AND JURISPRUDENCE**

LONG ESSAY

1 X 10 = 10

1. Describe various dental specialities.

WRITE SHORT NOTES

5 X 5 = 25

2. Dentist act 1948
3. Sterilization of dental instruments
4. Medicolegal issues in dental practice
5. Material maintenance and supply
6. Billing and accounting

WRITE SHORT ANSWERS

5 X 2 = 10

7. Code of ethics
8. Objectives of dentistry
9. Chairside assistance
10. Charting and recording cases
11. Appointment and recall visit

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
II YEAR DIPLOMAIN DENTAL HYGIENE (DDH)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE:6185

PUBLIC HEALTH DENTISTRY, ETHICS & JURISPRUDENCE, DENTAL MATERIALS

I. SHORT NOTES. ANSWER ANY EIGHT QUESTIONS 8X5=40

1. Aims and objectives of dental health education
2. Sterilization of dental instruments
3. Dentist's act 1948 related to registration of dental hygienist.
4. Oral cancer
5. Environmental health
6. HIV and periodontal disease
7. Child and parent counselling
8. Professional ethics and ethical matters relating to health care
9. Water supply to community and their implications on dental health
10. Community dentistry

II SHORT ANSWERS 20X3=60

11. Charts and posters
12. Dental stone
13. Audiovisual aids
14. Fluoride varnish
15. Plaster of paris
16. Topical flouride application
17. Silver amalgam
18. Glass ionomer cement
19. Define epidemiology
20. Disclosing agents
21. Zinc phosphate cement
22. Die stone
23. Impression compound
24. Alginate impression material
25. Zinc oxide impression paste
26. Hepatitis B virus
27. Composite resin material
28. Chair side assistance
29. Defluoridation of water
30. Dental floss

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
II YEARDIPLOMAIN PHYSIOTHERAPY (DPT)
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE:5195 ELECTROTHERAPY

SHORT NOTES – ANSWER ANY EIGHT

8x5=40

1. High pressure mercury vapour lamp
2. Describe the physiological effects and uses of LASER.
3. Bio feedback.
4. Production of Ultrasound.
5. Indications and contraindications of SWD.
6. Indications and contraindications of wax bath therapy
7. IRR
8. Faradic Current.
9. EMG
10. H-Reflex.

SHORT ANSWERS

20x3=60

11. Capacitance
12. TENS
13. Russian current
14. Types of Infrared generators
15. Micro Current
16. Contraindications of IFT
17. Axonotmesis
18. Step-up transformers
19. Dangers of UVR
20. AC & DC current
21. Jouel's Law
22. Lowering of skin resistance
23. Phonophoresis and its agents
24. Synapse
25. Therapeutic effects of SWD
26. Cryotherapy
27. Techniques of application of ultrasound
28. Name six types of currents used in Therapeutics
29. Moist heat therapy
30. Principle of IFT

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
FIRST YEAR ALL CERTIFICATE COURSES
TIME: 1Hrs 30Mins (RS -1 SCHEME) MAX. MARKS: 45

QP CODE:1103, BIOLOGY

LONG ESSAY – ANSWER ANY ONE

1 X 10 = 10

1. Explain reactions of Krebs cycle. Mention its importance. (8+2 = 10)
2. Draw a neat labelled diagram of human heart and explain mechanism of working of heart. (5+5 = 10)

SHORT NOTES ON ANY FIVE

5X5 = 25

3. ABO Blood grouping and Rh typing.
4. Structure of chromosome.
5. Placenta – structure and functions.
6. Mitosis.
7. Epithelial tissues.
8. Differences between DNA and RNA.
9. Mechanism of enzyme action.

WRITE SHORT ANSWERS

5 X 2 = 10

10. Mitochondrion.
11. Mention any 4 diseases caused by viruses.
12. Define carcinogen and mention any 2 carcinogens.
13. Name the parts of Large intestine.
14. Conjugated protein – Definition, examples.

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
FIRST YEAR ALL DIPLOMA COURSES

TIME: 3Hrs (RS -2 SCHEME) QP CODE:4105, BIOLOGY MAX. MARKS: 100

SHORT NOTE ANSWER ANY EIGHT

8x5=40

1. Explain Watson and crick model of DNA
2. Describe the structure & function of placenta
3. Expand AIDS. Mention the mode of transmission and preventive measures.
4. What is glands? Describe types of glands .
5. Sex determination .
6. Explain the mechanism of breathing .
7. Describe connective tissue.
8. Define sense organ. Write structure of human eye

9. Match the following

i)	Renal Capsule	a) Large intestine
ii)	Colon	b) Sphygmomanometer
iii)	Amylase	c) Kidney
iv)	Blood Pressure	d) Uterus
v)	Perimetrium	e) Salivary gland

10. Multiple choice questions.

- a) Blood group which has no antibodies is ____ i)A ii)B) iii)AB iv)O
- b) Chromosome number of human somatic cell is ____ i)46 ii)44 iii)23 iv)22
- c) Function unit of brain is _____ i) Nephron ii) Neuron iii) Cell iv) None of the above
- d) White blood cells acts as _____
 i) A define against infection ii) Source of energy iii) For clotting of blood
 iv) A medium for oxygen transport from lungs to tissue
- e) Normal tidal volume _____ i)500 ml ii) 400 ml iii)450 ml iv)600 ml

SHORT ANSWER

20 x3 =60

11. Structure of Graffian follicle.
12. Nephron.
13. Mention the parts of brain with a neat labeled diagram .
14. Golgi complex structure and its function.
15. ABO blood grouping.
16. Application of monoclonal antibodies.
17. Classification of chromosome based on position of centromere.
18. Describe the general structure of virus.
19. Define arteries and veins.
20. Gonorrhea .
21. Ultra structure of human sperm.
22. Muscular tissue.
23. Mention stages of meiosis.
24. Function of HCL in digestion.
25. Application of biotechnology.
26. Name 3 disease caused by virus .
27. Function of skin.
28. Fertilization.

29. Fill in the Blanks.

- i) Both Exocrine and Endocrine gland is _____
- ii) Metabolism involves _____ and _____
- iii) Normal blood pressure _____

30. Answer in one word / Sentence .

- i) Allosomes
- ii) ECG
- iii) Insulin

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN MEDICAL RECORDS
TECHNOLOGY(DMRT)
TIME: 1Hrs (RS -1 SCHEME) MAX. MARKS: 20**

QP CODE: 3144, MEDICAL & SURGICAL CODING

ANSWER ANY THREE QUESTIONS

3 X 5 = 15

1. Explain the types of coding books, and names of ICD coding books
2. How many different types of category codes we can observe in ICD coding book?
3. Define the purposes of coding? What are the uses of coding afterwards?
4. What is Medical, Surgical coding according to ICD 10

EXPAND THE FOLLOWING ABBREVIATIONS.

5 x 1 = 5

5. AGE
6. VSD
7. UPJ
8. COPD
9. TTNB

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIIYEAR DIPLOMA IN MEDICAL RECORDS TECHNOLOGY(DMRT)
TIME: 1Hrs (RS -2 SCHEME) MAX. MARKS: 30**

QP CODE: 6146 MEDICAL & SURGICAL CODING

ANSWER ANY TEN

10X3=30

1. Basic steps of coding
2. Structure of codes
3. Write the arrangement of Alphabetical Index
4. Expand the abbreviation (a) ICSOL b) LSCS c) BPPV
5. Name the chapters of ICPM
6. Write the procedures for selection of the underlying cause of death
7. Explain Inclusion & Exclusion terms
8. Why do we need to code for external causes of injury
9. Define parentheses
10. Dagger & asterisk system
11. Procedure for coding malignant conditions
12. Uses of mortality data

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PARAMEDICALBOARD,BENGALURU
SUPPLEMENTARY EXAMINATION, APRIL - 2023
IIIYEARDIPLOMAIN PHYSIOTHERAPY (DPT)

TIME: 3Hrs (RS -2 SCHEME)

MAX. MARKS: 100

QP CODE:5197

SECTION A: ALLIED THERAPEUTICS

SHORT NOTES – ANSWER ANY FOUR

4x5=20

1. Define health and physical fitness- Discuss about the factors which enhances the state of health.
2. Enumerate the factors which helps in assessment of Cardio-respiratory functions.
3. Discuss the principles of diet and its modifying factors.
4. Enumerate the factors related to training of physical performances and skills in an individual.
5. Define healthy diet. Discuss the factors contributing in making a healthy diet plan

SHORT ANSWERS

10x3=30

6. Acupuncture.
7. Effects of Yoga in human body.
8. Adverse effects of junk foods.
9. Define naturopathy.
10. Magnetotherapy.
11. Brief note on any two Yogasanas.
12. Define Physical fitness.
13. Brief note on any two injuries that are common in sports.
14. Do's and Dont's while doing physical exercises
15. Kukkudasana

QP CODE: 5198

SECTION B: PHARMACOLOGY

SHORT NOTES – ANSWER ANY FOUR

4x5=20

16. Insulin uses and adverse effects
17. Name 4 Opioid analgesics. Write the uses and side effects of Morphine.
18. Classify cholinergic drugs. Write the uses and side effects of Neostigmine.
19. Mention 4 sedative and hypnotics. Write the 3 uses and side effects of Diazepam.
20. Classify peripheral skeletal muscle relaxants. Write the uses Succinyl choline

SHORT ANSWERS

10X3 = 30

21. Define the terms: Pharmacotherapeutics, pharmacokinetics, pharmacodynamics.
22. Name 3 drugs obtained from minerals.
23. Name 3 NSAIDs and mention 3 uses of Paracetamol.
24. Name 3 antiepileptics.
25. Name 3 drugs used in hypertension.
26. Name 3 uses of Adrenaline
27. Name 3 inhalational glucocorticoids used in Bronchial asthma.
28. Name the uses of Thyroxine hormones.
29. Name 2 glucocorticoids and write their uses.
30. Name the uses and side effects of Insulin.

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PARAMEDICALBOARD,BENGALURU

SUPPLEMENTARY EXAMINATION, APRIL - 2023

FIRST YEAR ALL CERTIFICATE COURSES

TIME: 1Hrs 30Mins (RS -1 SCHEME)

MAX. MARKS: 45

QP CODE:1104, ENGLISH

Write an essay on any ONE of the following. 1X15=15

1. Mobile Phones.
2. Water pollution.

Answer any One. 1x10=10

3. Write an application for “re-valuation “ addressed to chairman, Para-medical board.
4. Write a letter your friend inviting him to attend “Your college day celebrations”

Write the Opposite GENDERS. 5x1=5

5. Actor
6. Hero
7. Sir
8. Bachelor
9. Wife

Write the Opposites. 5x1=5

10. Right
11. True
12. Long
13. Lazy
14. Wise.

Make the Sentences by using the following. 5x1=5

15. Because
16. So that
17. Only
18. But
19. Also

Fill in the Blanks. 5x1=5

20. The Programme start at 7 a.m.
21. The Earth around the Sun.
22. Mukesh Ambani is richest man in India.
23. She Worried about her mother.
24. He is good boy.

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SUPPLEMENTARY EXAMINATION, APRIL - 2023
FIRST YEAR ALL DIPLOMA COURSES
TIME: 3Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE:4107, ENGLISH

Write an Essay on any one of the following in about 200-250 words 1x15=15

1. First Aid
2. Health Camps

Answer any one (Letter Writing) 1x10=10

3. Write a letter to your principal requesting to issue transfer certificate.
4. Write a letter to your friend inviting him / her to your marriage.

5. Use the following idioms / Phrases in Sentences of your own 5x1=5

- a)Give up b)Once in blue moon c)Back up d)Look after e)Drop out.

6. Change the following into indirect speech 5x1=5

- a) My friend said “ Honesty is the best Policy”
- b) “ How beautiful the picture is !” said seethe
- c) Anisha said “ She wants to become a nurse”
- d) Ramesh Said “ it is very cold today
- e) My brother said “ I like my new school ”

7. Change the voice of the following 5x1=5

- a) My uncle wrote a letter
- b) Children love the rainbow
- c) Bring a chair.
- d) Everyone loved mother Teresa
- e) Nests are built by birds.

8. Write the opposite of the following 5x1=5

- a) Early b) Heavy c) Horse d)Ugly e) Queen .

9. Fill in the blanks with suitable prepositions 5x1=5

- a) I am going _____ Mumbai tomorrow
- b) I am fond _____ music
- c) I will come _____ next week
- d) The poor people died _____ Hunger
- e) We start class _____ 9 ‘o’ clock.

10. Fill the blanks with articles 5x1=5

- a) He sent me _____ gift.
- b) b) She is _____ ugly women .
- c)They read _____ bible daily
- d) My uncle purchased _____ new house
- e) He is _____ MLA

P.T.O

- 11. Give synonyms of the following** **5x1=5**
a) Old b) Famous c) Handsome d) Happy e) Rapid

- 12. Read the following passage carefully and answer the questions** **5x2=10**

Commonwealth games is the second largest sports in the world after Olympics. It was initially started in 1930. There are currently 54 members of the commonwealth nations and around 71 countries participate in the games every fourth year. The 2010 commonwealth was held in New Delhi. The core values of the game are humanity, equality and destiny were adopted as the motto of the game.

- a) What is the position of commonwealth games in the world after Olympics?
- b) When did commonwealth start?
- c) How many countries participate in commonwealth games?
- d) Where was the 2010 commonwealth games held?
- e) Name one of the core values of the game.?

- 13. Write the correct medical term** **1x10=10**
a) Uro b) Cardi c) Radi d) Nephro e) Pan
f) Neuro g) Hemo h) Patho i) Cryo j) Cyto

- 14. Write an e-mail to your friends to attend the birthday party of your son on the 15th of May at 10'O Clock in the Hotel Das.** **1x5=5**

- 15. Fill in the blanks with appropriate prepositions and articles given in brackets** **1x5=5**
(to, at, a, by, in)
She always reads _____ Newspaper _____ the morning _____ Having tea, she will go _____ office _____ 10 'O' Clock.

- 16. Rearrange the jumbled segments to form a sentence** **6x1=6**
a) Like / I / Travel/ to
b) Trouble / Sorry / The / for
c) Love / English/ I
d) Came / by / train / I
e) Helen / Very / Writes / Well
f) Doctor / is/ friend / a / my

- 17. Complete the dialogue** **4x1=4**
a) Guide: _____ (Greets)
b) Tourist: Good morning. _____
c) Guide: Yes sir, I will take you to Mysore and inform about the place.
d) Tourist: _____
e) Guide: _____ let us move.
