

KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION(REGULATION) AUTHORITY
PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023
I YEARDIPLOMA/II YEAR CERTIFICATE COURSE IN MEDICAL LABORATORYTECHNOLOGY(DMLT)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90
QP CODE: 2101 SECTION-A, ANATOMY

I Long Essay (Any 1) 1 x 10 = 10

1. Name the parts of Digestive system with a labelled diagram. Describe Stomach in brief. (5 + 5)
2. Classify joints with examples. Describe Synovial Joint in brief. (6 + 4)

II. Short Notes (Any 5) 5 x 5 = 25

3. Deltoid Muscle
4. Epithelium
5. Para Nasal Sinuses
6. Histology of Testis
7. Right Kidney
8. Pituitary Gland
9. Skeletal Muscle

III. Short Answers 5 x 2 = 10

10. Name three Tarsal Bones
11. Name any two Arteries of Upper Limb
12. Name four Chambers of the Heart
13. Name any two Veins of Lower Limb
14. Name any two Endocrine Glands

QP code- 2102 SECTION –B, PHYSIOLOGY

IV Long essay-answer any ONE. 1x10=10

15. Describe the functions of Middle ear with a neat labelled diagram.
16. Explain Erythropoiesis with the help of a neat labelled diagram

V. Write short notes on any FIVE. 5x5=25

17. Composition and functions of Gastric juice.
18. Refractory errors of eye and their correction.
19. Hormonal Regulation of Menstrual cycle.
20. Taste pathway.
21. Composition and functions of Saliva.
22. Describe the actions of Thyroid hormone
23. Phases of Cardiac Cycle.

VI. Short answers 5x2=10

24. Name any two types of Muscles.
25. Write two functions of Gall bladder.
26. Write the normal values of 1) Tidal volume. 2) Total lung capacity.
27. Write the normal values of 1) Blood Pressure. 2) cardiac output.
28. Name any two normal constituents of urine.

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

QP CODE: 5101 SECTION –A ANATOMY

SHORT ANSWERS- ANSWER ANY FOUR

4 X 5 = 20

1. Mention all organs associated with digestive system and explain anatomy of liver
2. Describe briefly Quadriceps muscle
3. Describe kidney in brief.
4. Describe systemic circulation in brief
5. Parts of Long bone with diagram.

SHORT NOTES

10 X3 = 30

6. What is sub-stage condenser?
7. Name the muscles in the Upper limb.
8. Draw neat labelled diagram of cubital fossa
9. Mention different parts of large intestine
10. Define abduction
11. Mention any 3 differences between right and left lung
12. Name all ventricles of brain
13. Describe briefly subclavian vein
14. Name all lymphoid organs
15. Describe briefly the process of lumbar puncture

QP CODE: 5102

SECTION –B, PHYSIOLOGY

SHORT NOTES (ANSWER ANY FOUR)

4 x 5 = 20

16. Composition & Functions of Plasma Proteins.
17. Normal structure of a Cell.
18. Oxygen Dissociation Curve.
19. List the Anterior Pituitary hormones. List the functions of Thyroid hormone.
20. Spermatogenesis.

SHORT ANSWERS

10 x 3=30

21. Conducting System of Heart.
22. Functions of Hemoglobin.
23. Draw a neat labelled diagram of Neuron.
24. Deglutition.
25. Types of Muscle.
26. List the muscles of ventilation
27. Define Cardiac output & its normal value.
28. Name three Contraceptive methods in Female.
29. Name three Anticoagulants.
30. Homeostasis.

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PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023
I YEARDIPLOMA/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. State law of conservation of energy. Define force, work and power and mention its SI units.
2. Write about structure of atom. Define atomic number and atomic mass number

SHORT NOTES – ANSWER ANY FIVE 5 x5 = 25

3. Write in brief about heat transfer.
4. Ohm's law
5. Anode and its types.
6. Transformers.
7. What is diode Rheostat
8. Tube rating and cooling curve

SHORT ANSWERS 5 x 2 = 10

9. Self rectification
10. Ammeter.
11. Space charge effect
12. AC and DC current.
13. State law of conservation of energy

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II YEAR 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. Working principle, merits and demerits of Digital fluoroscopy
2. Give production and properties of beta rays
3. Characteristic of Radiation
4. Construction of rotating anode X-ray tube
5. Working principle of solid state rectifier
6. Working principle of CT scan
7. Write a note on atom
8. Automatic exposure control devices
9. Types of X-ray generators & their functioning.
10. High KVP technique

SHORT ANSWERS

20X3=60

11. Auto transformer
12. Anode heel effect
13. Binding energy
14. Mechanism of alpha decay
15. Isomer
16. Step down transformer
17. Mass Number
18. List different types of current and its wave forms
19. Self-rectification
20. Scatter radiation
21. Inherent filter
22. Collimator
23. Stationary anode X-Ray tube
24. Fuses
25. Contrast media
26. CT data acquisition
27. Leakage radiation
28. Cathode
29. Diode
30. Bone Densitometry.

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PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023
I YEAR 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

I LONG ESSAY – ANSWER ANY TWO

2X10 = 20

1. Write briefly on sterilization and disinfection. Explain CSSD.
2. Describe the preservation of the specimen and handling of the specimen to be sent for histopathology and microbiology.
3. Enumerate the different types of suture materials. Write the concept in laparoscopic surgery

II WRITE SHORT NOTES ON ANY TEN

10X5=50

4. Skin grafting
5. Sterile team members
6. Ultrasonography
7. Various types of cautery and precautions in using cautery
8. Wound infection
9. Patients skin preparation
10. Fumigation
11. Wound dressing
12. Pulse oximeter
13. Circumcision
14. Exchange areas in OT
15. Positions in surgery

III WRITE SHORT ANSWERS

10X2=20

16. IV Cannulas
17. Vicryl
18. Occupational hazards in OT persons
19. Vacuum suction
20. Manifold room
21. MRI
22. C-Arm
23. Gowning
24. Three techniques of draping
25. Endoscopy

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ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023
II YEARDIPLOMA 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

8X5=40

1. Duties and Responsibilities of OT technicians.
2. Health care team.
3. Write the principles of sterile technique.
4. CSSD.
5. What are the various types of cautery.
6. Ambulatory surgery.
7. Write the factors influencing wound healing.
8. Laparoscopic surgery.
9. Pre-Operative care.
10. Bipolar cautery.

20X3=60

SHORT ANSWERS

11. Mention different methods of sterilization.
12. Mention methods to prevent electrical hazards.
13. Pre Operative check list.
14. Informed consent.
15. Monitoring in operation theatre.
16. Method of haemostasis.
17. How to preserve specimens for histopathology.
18. Endotracheal tube.
19. Radiation hazards and safeguards.
20. Gowning & Gloving.
21. Airway.
22. Artery forceps.
23. Vacuum Suction.
24. Preservation of specimens to be sent for microbiology.
25. Room cleaning procedure after surgery.
26. Sharp instrument count.
27. Plethsmography.
28. Pre anesthetic Evaluation.
29. Aseptic Precaution.
30. Urinary tract catheterization.

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PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023
II YEAR DIPLOMA IN 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. Middle digit filing
2. Functions of Medical Record Department
3. Duties and Responsibilities of Medical Record Committee
4. Workmen's compensation Act
5. Define judgment and decree
6. What are the quality characteristics of a good medical records
7. Arrest without warrant
8. Explain the principals of Estoppels
9. Duties and responsibilities of Central Admitting staff
10. Organization and management of MRD

SHORT ANSWERS

20x3=60

11. Absconded case
12. Chronological order of Assembling
13. Serial numbering system
14. External audit
15. FIR
16. What are rights of an arrested person
17. Retention of medical records
18. Public servant
19. Malpractice suits
20. Uses of Birth certificates
21. Live birth & Still birth
22. Maternal Mortality
23. Daily ward census
24. Accession Register
25. Formula of bed occupancy rate
26. Relevancy of facts
27. Qualitative analysis
28. Name the special medical record forms
29. Admission register
30. Birth & Death registration

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I YEAR DIPLOMA/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 five Anti Tubercular drugs. Mention two uses, two adverse effects and one contraindication of Rifampicin [5+2+2+1]
2. Name six Antidiabetic drugs. Mention two uses and two adverse effects of INSULIN [6+2+2]

WRITE SHORT NOTES ON ANY FIVE 5 x 5 = 25

3. Intravenous route of drug administration
4. Paracetamol.
5. Diazepam
6. Doxycycline.
7. Vitamin D
8. Morphine.

WRITE SHORT ANSWERS 5 x 2 = 10

9. Name two Killed Vaccines.
10. Two uses of formaldehyde
11. Mention two drugs for Organophosphorous poisoning
12. Name Two flavouring agents
13. Name two disadvantages of Oral drug administration

QP CODE: 2152 SECTION B: THEORY OF DIALYSIS

Answer any one question 1 x 10 =10

14. Mentions the complications during haemodialysis and their management in brief.(5+5)
15. Explain the dialysis circuit with labelled diagram. (5+5)

Short notes Answer any five questions 5x5=25

16. Describe complications of renal failure.
17. Types of Fistula cannulation techniques with advantages and disadvantages.
18. Describe fluid composition of human body.
19. Heparin free dialysis – Indications and complications.
20. Describe various types of haemodialysis access. Mention two sites for venous catheter placement.
21. Define diffusion, osmosis and convection in dialysis setting.

Short answers 5x2=10

22. Name two causes of Anemia in Chronic Renal Disease. (CKD)
23. Name disinfectants used in sterilization of dialyzers
24. Reverse Osmosis/RO.
25. What are the disadvantages of dialyzer reuse?
26. Name two Functions of Dialysis.

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II YEAR DIPLOMA IN DIALYSIS TECHNOLOGY(DDT)

TIME: 3 Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE: 5151

SECTION A: APPLIED PHARMACOLOGY

SHORT ESSAY (ANSWER ANY FOUR)

4 X 5 = 20

1. Name different sources of Drugs. Write briefly on Plant Sources.
2. Name 5 Antihypertensive agents and write uses of Beta blockers.
3. Name Diuretics. Mention uses and ADR's of Diuretics.
4. Name Sedatives & Hypnotics and mention mechanism of action any one drug.
5. Classify corticosteroids. Mention uses and adverse effect of corticosteroids.

SHORT ANSWERS

10 X 3 = 30

6. Name 3 Bronchodilators.
7. Name 3 disinfectants.
8. Mention 3 Parenteral iron preparations.
9. Name 3 Analgesics.
10. Name 3 Live Attenuated Vaccines.
11. Name 3 intravenous inducing agents.
12. Plasma Half Life.
13. Name 3 Oral Hypoglycemic agents.
14. Name 3 Routes of Elimination of Drugs.
15. Name 3 Local Anesthetics.

QP CODE: 5152

SECTION B: THEORY OF DIALYSIS

SHORT NOTES – ANSWER ANY FOUR

(4x5=20)

16. Methods used for monitoring water treatment systems in a dialysis unit.
17. What are the monitors available in HD machine? Describe any two.
18. Advantages and disadvantages of Peritoneal Dialysis (PD).
19. Write a short note on heparinization techniques used in Hemodialysis.
20. Write a short note on Chronic Renal Failure and its stages.

SHORT ANSWERS

(10x3= 30)

21. Pruritus in patient undergoing HD
22. Internal access thrombus
23. AV Fistula failure.
24. URR
25. Diffusion
26. Draw water softner parts with labelling
27. First use Syndrome
28. Draw CAPD Catheter and label the parts.
29. Common tests done for dialysis patients.
30. Indication for hemodialysis

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I YEARDIPLOMA/II YEAR CERTIFICATE COURSE IN OPHTHALMIC TECHNOLOGY(DOT)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90
QP CODE: 2161, OPHTHALMOLOGY-1

GENERAL INSTRUCTIONS:

Write neat diagram wherever necessary, handwriting should be legible.

I. LONG ESSAY - ANSWER ANY TWO 2 × 10 = 20 MARKS

1. Describe layers of the cornea and factors responsible for the corneal transparency
2. Define hypermetropia. Discuss the etiology, types, signs, symptoms and management of hypermetropia.
3. Mention the components of Vision. Write a note on methods of checking visual acuity.

II. SHORT NOTES - ANSWER ANY TEN 10 × 5 = 50 MARKS

4. List the layers of eyelid
5. Cycloplegic refraction and its indications
6. Draw a diagram of Sturm's conoid
7. Progressive Spectacles.
8. Presbyopia
9. Name the structures seen in the angle of the eye
10. Enumerate the layers of the retina
11. Write a short note on Aqueous humor production
12. Describe the principles of Snellen chart
13. Types and treatment of Astigmatism.
14. Types of Bifocals.

III. SHORT ANSWERS ANSWER ANY TEN 10 × 2 = 20 MARKS

15. Universal precautions.
16. Uses of prism in Ophthalmology
17. What is anisometropia? Name two problems with anisometropia
18. Name parts of the uveal tissue
19. Name the layers of the tear film
20. Pin hole testing
21. Duochrome test
22. Lantern test
23. Uses of convex lenses
24. Indication of contact lenses
25. What is Keratometry?

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II YEAR DIPLOMA IN OPHTHALMIC TECHNOLOGY(DOT)**

TIME: 3 Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE: 5161, OPHTHALMOLOGY-1

I. Short Notes, Answer Any Eight Questions,

8x5=40

1. Define Myopia. Describe Clinical Types of Myopia
2. Name Cycloplegic Eye drops and describe their uses
3. Define Presbyopia. Describe Optical Correction of Presbyopia
4. Describe principle & uses of Snellen`s Chart
5. Draw a neat Labelled Diagram of Cut Section Of eyeball
6. Advantages of Contact Lenses over Spectacles
7. What Is Lasik Procedure & mention its Uses
8. Intra Ocular Lenses
9. Describe Optics of mirror Retinoscopy.
10. Low visual aids and uses

II. Short Answers:

20x3=60

11. Draw a neat labelled diagram of cut section of eyelid
12. Describe 3 Methods of recording Intra ocular pressure
13. Layers of Tear Film
14. Name Extra Ocular Muscles and their Nerve Supply
15. Optical Correction of Aphakia
16. Fogging Technique
17. Duochrome Test
18. How to Identify a Convex Lens
19. Aqueous humor Production.
20. Jackson`s cross Cylinder & its Uses
21. write simple transposition of lens +2D sphere -1 D Cylinder at 90 Degree axis
22. Mention Different Stereo acuity Tests
23. Draw neat Diagram of optics of myopia
24. Describe different Designs of Spectacle Frame
25. Material Used for spectacle Frame
26. Amblyopia.
27. Layers of cornea
28. Tonometer.
29. Types of Colour Blindness
30. Types of Astigmatism.

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

TIME: 1Hrs30Mins

(RS -1 SCHEME)

MAX. MARKS: 45

QP CODE:2171, DENTAL MATERIALS & METALLURGY

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

- 1) Classify waxes write in details about inlay wax.
- 2) Classify gypsum products and describe in detail about type II gypsum product.

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

- 3) Reversible hydrocolloid
- 4) Types of stainless steel
- 5) Alloys used in Prosthodontics.
- 6) Uses of zinc phosphate cement
- 7) Plaster of Paris.
- 8) Addition silicon impression material.
- 9) Properties of heat cure acrylic resin

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

- 10) Welding.
- 11) Divestment
- 12) Electrodeposition.
- 13) Annealing
- 14) Niti wires

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

QP CODE:5171, DENTAL MATERIALS& METALLURGY

I Short Notes, Answer Any Four Questions

4x5 = 20

- 1) What is an alloy and write about base metal alloys.
- 2) Glass ionomer cement
- 3) Tray materials.
- 4) Addition silicon impression material
- 5) Steps in compression Moulding technique

II Short Answers

10x3 = 30

- 6) Wet strength
- 7) Niti wires
- 8) Inlay wax
- 9) Soldering and Welding
- 10) Corrosion
- 11) Fluxes and antfluxes
- 12) Ductility and Malleability
- 13) Types of Heat Treatment in Dentistry.
- 14) Physical stages of polymerisation
- 15) Type IV Gypsum

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ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023
II YEARDIPLOMAIN DENTAL HYGIENE (DDH)
TIME: 1 Hrs 30Mins (RS -2 SCHEME) MAX. MARKS: 50**

QP CODE:5181

SECTION A: GENERAL ANATOMY & HISTOLOGY

I SHORT ANSWERS- ANSWER ANY TWO

2X 5 = 10

1. write briefly about nerve supply and blood supply of face.
2. Describe muscles of mastication
3. Describe osteology of Mandible bone

II SHORT NOTES

5X3 = 15

4. Name different types of epithelium with example
5. Describe nerve supply of Tongue.
6. Describe the development of tooth in brief
7. Name different branches of trigeminal nerve
8. Describe anatomy of adrenal gland in brief

QP CODE:5182

SECTION B: GENERAL PHYSIOLOGY

III. SHORT NOTES ANSWER ANY TWO

2 x 5 = 10

9. Define and explain the stages of Erythropoeisis.
10. Write composition and functions of Saliva.
11. Regulation of respiration

IV. SHORT ANSWERS

5 x 3=15

12. Draw a neat labeled of Neuron
13. Name Two Blood Group System.
14. Define G.F.R. and its value.
15. Normal value: heart rate and cardiac output
16. Name three Anticoagulants.

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I YEAR 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 Write briefly about the ligaments of the hip joint
- 2 Describe the Popliteal fossa
- 3 Pleura
- 4 Brachial plexus
- 5 Ligaments of liver.
- 6 Pituitary gland
- 7 Temporomandibular joint
- 8 Diaphragm.
- 9 Fibrous joints
- 10 Left Ventricle.

SHORT ANSWERS

20 x 03 = 60

11. Classify cartilaginous joints with examples
12. Draw neat labelled diagram growing long bone
13. Types of skeletal muscles with examples
14. Arches of the foot
15. Azygus vein
16. Rotator cuff of shoulder joint
17. Sternal angle
18. Coverings of the kidney
19. Sciatic nerve
20. Trapezius muscle
21. Trochanters of the femur
22. Features of clavicle
23. Nerve supply of foot.
24. Arterial supply of the heart
25. Erb's point
26. Brain stem
27. Motor Speech area.
28. Facial nerve
29. Ventricles of the brain
30. Varicose vein

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III YEARDIPLOMA IN 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. Describe the types and methods of breathing exercises.
2. Define Parkinsonism its features and PT management of Parkinson's disorder.
3. Define pneumothorax and its types and give the PT management.
4. A 3yrs old child with spastic cerebral palsy comes to you. Explain the PT management?
5. Role of physiotherapist in ICU.

SHORT ANSWERS

(10x3= 30)

6. DVT
7. APGAR Score.
8. Erbs palsy
9. PT management of muscular dystrophy.
10. Mitral Stenosis
11. Median claw hand
12. UMN Lesion.
13. Uses of postural drainage
14. Chondromalacia patella
15. IVDP

QP CODE: 6192

SECTION B: P.T IN SURGICAL CONDITIONS

SHORT NOTES – ANSWER ANY FOUR

(4x5=20)

- 16 Describe the Post Operative PT management of Valve replacement.
17. What are the deformities after Ulnar nerve injury? Write its assessment and PT management.
18. Principle of Tendon Transfer in Polio and PT Management.
19. Explain PT management of Stress Incontinence.
20. Plastic surgery in burns. Discuss the PT management of burns.

SHORT ANSWERS

(10x3= 30)

21. Huffing and coughing.
22. . Crush injury
23. Guyon's canal syndrome
24. Carpel tunnel syndrome
25. Lizarov fixator
26. Physiotherapy for skin graft
27. Surgical Emphysema.
28. Sprain and strain management.
29. Lymphoedema
30. Types of breathing exercises.

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

QP CODE: 6101, BIOCHEMISTRY

I. SHORT NOTES ON ANY EIGHT

8 X 5 = 40

1. Flame photometry.
2. ELISA – principle and application.
3. Renal function test
4. What are the liver function tests done for diagnosis of jaundice?
5. CSF analysis.
6. Role of kidney in maintenance of acid base balance.
7. Automation in clinical laboratory.
8. Electrophoresis.
9. Explain the terms – accuracy, precision and specificity.
10. External quality control.

II. WRITE SHORT ANSWERS

20X 3 = 60

11. Acidosis.
12. Normal levels of serum electrolytes.
13. Beer Lambert law.
14. Name different methods of glucose estimation.
15. Diagnostic enzymes of cardiac disease.
16. Lipid profile.
17. Choice of filters and its use in photometry.
18. Chloride shift.
19. Normal A: G ration and its importance.
20. Normal values of a) Urea b) Creatinine c) Postprandial Blood Glucose.
21. Carbonic anhydrase.
22. Different electrodes in pH meter.
23. Percentage error in laboratory.
24. Anion gap.
25. Random access analyzer.
26. HDL - Cholesterol.
27. Different methods of serum cholesterol estimation.
28. What is Blank in colorimetry? Mention its importance.
29. CK – MB and CK – NAC.
30. Pre-analytical errors in clinical laboratory.

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ANNUAL EXAMINATION OCTOBER / NOVEMBER -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-I

TIME : 3 hour

Max Marks : 90

I. Long Essay – Answer any TWO

2X10=20

1. Enumerate mosquito borne diseases. Describe epidemiology and control of malaria.
2. Enlist the major non-communicable diseases in India. Write risk factors for Hypertension.
3. Enlist the Five National Health Programmes in India. Discuss Revised national tuberculosis control programme

II. Write short notes on any TEN

10 X 5=50

- 4) Danger signals of Cancer
- 5) Integrated vector control measures
- 6) Modes of HIV transmission.
- 7) Janani Suraksha yojana
- 8) Epidemiology of Typhoid.
- 9) Risk factors for Diabetes Mellitus
- 10) UNICEF.
- 11) Scabies
- 12). First Aid in Burns
- 13) Hazards of Obesity
- 14) Pulse polio Immunization
- 15) Active surveillance in malaria.

III. Write short answers

10X2=20

- 16) Leprosy
- 17) Water borne disease
- 18) Measles vaccine OR 18) ORS
- 19) Treatment of filariasis
- 20) Domestic accidents
- 21) Herd immunity
- 22) Mention any four zoonotic diseases
- 23) DDT
- 24) Name two sexually transmitted diseases
- 25) Rule of halves in hypertension

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PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION OCTOBER / NOVEMBER -2023
III YEAR DIPLOMA IN HEALTH INSPECTOR (DHI)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 6111, COMMUNITY MEDICINE, PAPER I

I SHORT NOTES: ANSWER ANY EIGHT

8x5=40

1. What is cancer? Write briefly on screening for cancer.
2. Road traffic accidents and its prevention
3. Explain tracking of blood pressure with diagram
4. Write in brief about steps in Investigations of epidemic.
5. Classification of acute respiratory infection as per ARI control program
6. Prevention of CHD
7. Epidemiology of dengue
8. Prevention of rabies
9. Epidemiology of typhoid
10. Vision 2020-The right to sight model

II. SHORT ANSWERS

20 x3=60

11. Rehabilitation in Leprosy
12. Congenital Rubella
13. Expand NTEP, NVBDCP & NACP
14. Epidemic, Endemic and Pandemic
15. BCG
16. Three danger signs of cancer
17. BMI Classification
18. Pentavalent vaccination schedule
19. Opportunistic infection in AIDS
20. Explain the "Rule of Halves" in hypertension
21. Three sexually transmitted diseases
22. Diabetic foot
23. Symptoms of tuberculosis
24. Modifiable risk factors of hypertension
25. Three diseases transmitted by faeco oral route
26. Three complications of diabetes
27. Vaccine carrier
28. Three Air-borne infections
29. Vitamin-A prophylaxis.
30. MR vaccination

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ANNUAL EXAMINATION OCTOBER / NOVEMBER -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

I. LONG ESSAY- ANSWER ANY TWO

2x10=20

- 1) Write about IITV fluoroscopy. Write about Uses.
- 2) Write about x ray generators.
- 3) What are electromagnetic radiations and its medical uses

II. WRITE SHORT NOTES ON ANY TEN.

10X5=50

- 4) Grids
- 5) KVP
- 6) Stationary and rotating anodes.
- 7) Ultrasound
- 8) Half life.
- 9) Fixers
- 10) Exposure factors.
- 11) Preparation of photographic solutions.
- 12) Digital mammography.
- 13) Computed Radiography-CR
- 14) x ray film
- 15) Photoelectric effect.

III. WRITE SHORT ANSWERS

10X2=20

- 16) Tungsten
- 17) TLD Badge
- 18) Bucky
- 19) Lead Apron.
- 20) Hounsfield unit
- 21) Characteristics of sound.
- 22) Isotopes
- 23) Thermionic emission.
- 24) Alpha and beta decay.
- 25) Digital radiography

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ANNUAL EXAMINATION OCTOBER / NOVEMBER -2023
III YEAR DIPLOMA IN MEDICAL IMAGING TECHNOLOGY(DMIT)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE:6121, RADIOGRAPHIC POSITIONING & RADIOGRAPHIC PHOTOGRAPHY

I. SHORT NOTE- ANSWER ANY EIGHT

8X5=40

1. Radiation effects in human body
2. CT data acquisition
3. Radiography of Knee joint
4. Explain about Kvp & mAs
5. Write short note about CT Scan
6. Describe about Shock
7. Describe about artefacts in X-Ray film
8. Radiation detectors
9. Describe important skull lines
10. Write short note about responsibilities of the Radiographer

II. SHORT ANSWERS

20X3=60

11. X-Ray beam limiting devices
12. Scaphoid view
13. Matrices
14. CT distortion
15. Grid
16. Negligible individual dose(NID)
17. Shielding
18. Fog
19. Collimator
20. Focal Film Distance
21. Name the bones of wrist joint
22. Mention basic planes and its significance in radiography
23. Cardinal principles in protection
24. Somatic effects.
25. Sternoclavicular articulation
26. TLD
27. Immobilization devices
28. Facial bones
29. Waters view
30. ALARA concept

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ANNUAL EXAMINATION OCTOBER / NOVEMBER -2023
II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN OPERATION THEATRE TECHNOLOGY (DOTT)
TIME: 3Hrs (RS -1 SCHEME) MAX. MARKS: 90**

QP CODE: 3131, ANAESTHESIA & ALLIED TOPICS

I. ANSWER ANY 2

2x10 = 20

1. What is pre-medication ? Enlist the different drugs given in pre-medication ?
Write in brief about Glycopyrrolate . (2+ 2+ 6)
2. What is monitoring ? Name few non invasive monitors. Explain pulseoximetry in detail (2+ 3+ 5)
3. What is spinal Anesthesia ? Name few spinal needles . What are the complications of spinal anesthesia ? (2+ 2+ 6)

II . Write short notes on any 10

10 x 5 = 50

4. Thiopentone
5. Draw a neat labelled diagram of Endotracheal tube.
6. IV cannulation
7. Informed written consent
8. Bupivacaine
9. Sevoflurane
10. Guedel's airway
11. Basic life support
12. Ringer's lactate
13. Bain's circuit
14. What is hypothermia ? How to prevent in OT ? M
15. What are the occupational Hazards in OT ?

III . Write short answers

10 x 2 = 20

16. Supine position
17. Vecuronium
18. Laryngoscope
19. Ondansetron
20. Adrenaline
21. Hydrocortisone
22. ASA Grading
23. Tourniquet
24. What is record keeping ?
25. Name 2 drugs used in cardiopulmonary resuscitation .

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ANNUAL EXAMINATION OCTOBER / NOVEMBER -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

QP CODE 6131

I. Short notes Any Eight

8x 5 = 40

1. ASA grading.
2. What is premedication ? Name few premedication drugs
3. Principles of Anesthesia Machine .
4. Draw a neat labelled diagram of Endotracheal tube
5. Normal saline
6. Basic life support
7. What is Difficult airway algorithm
8. Indications of Spinal Anesthesia
9. Non invasive monitors
10. Classify neuromuscular blocking agents. Write a brief note on Atracurium

II . Short Answers

20 x 3 = 60

- 11 Electrical hazards in ot
12. Record keeping
13. Defibrillator
14. Informed written consent
15. Thiopentone
16. Central venous pressure monitoring
17. Bougie
18. Supine position
19. Pre oxygenation
20. Laryngeal mask airway
21. Bains circuit
22. Neostigmine.
23. Intravenous cannula
- 24 . Sedation
25. Oxygen cylinder
26. Dexamethasone
27. Ondansetron
28. Lignocaine
29. Glycopyrrolate
30. Waste management in OT

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ANNUAL EXAMINATION OCTOBER / NOVEMBER -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

Time: 3 hrs

Max. Marks:90

1. Answer the following

5x3=15

- a. Define Medical Terminology & its purpose?
- b. What are the elements of Medical Terminology?
- c. Define fracture and mention the different types of fracture?

2. Give the Meaning for the following Prefixes

5x1=5

- a) Semi b) Extra c) Peri d) Endo e) Rectro

3. Give the Meaning for the following Suffixes

5x1=5

- a) Megaly b) Osis c) Plasty d) Rhexis e) Cele

4. Give the Meaning for the following Roots

5x1=5

- a) Chole b) Encephal d) Pyo e) Hepat f) Litho

5. Write the Phobias for the following

10x1=10

- a) Poverty b) Lies c) Cold d) Fire e) Animals
- f) Poison g) Dust h) Books i) Self j) Man

6. Differentiate the following terms

5x2=10

- a) Carpus & Corpus b) Callus & Callous c) Friction & Fraction
- d) Morbid & Morbidity e) Ileum & Ilium

7. Write the Numericals for the following

5x1=5

- a). Mono b). Unus c). Bini d). Hex e). Non

8. Give the Medical Terms for the following

10x1=10

- a). Collection of Fluid in the Peritoneal Cavity b). Fracture due to Disease
- c). Black stool of the new born d). Deficiency of White Blood Cells
- e). Inflammation of the ear f). Sugar in the Blood
- g). Loss of Sensation h). Increased Blood Pressure
- i). A slow heart rate j). Gestation outside the uterine cavity

9. Define the following

10x1=10

- a). Hematemesis b). Angiolith c). Cardialgia d). Dermatitis e). Encephalopcele
- f). Glycemia g). Hysterectomy h). Osteoma i). Nephropexy j). Psychopathy

10. Expand the following abbreviations

10x1=10

- a) ENT b) FTND c) DUB d) COPD e) LFT f) PM g) RHD
- h) PPH i) TPR j) UTI

11 Give the meaning for the following colours

5x1=5

- a) Niger b) Lodes c) Polios d) Ruber e) Icterus

PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION OCTOBER / NOVEMBER -2023
III YEARDIPLOMAIN MEDICAL RECORDS TECHNOLOGY(DMRT)
TIME: 3Hrs (RS -2 SCHEME) MAX MARKS: 100

QP CODE: 6141 – MEDICAL TERMINOLOGY

I SHORT NOTES – ANSWER ANY EIGHT

8x5=40

1. Purpose of learning Medical terminology
2. Chief sources of medical terminology with two examples for each.
3. Define Phobia and write three phobias with their meanings
4. Planes of the body
5. Define carcinoma and Benign
6. Define Bradycardia and Tachycardia
7. Define efferent and afferent
8. Define adduction and abduction
9. Define Cardialgia and Cardiomegaly
10. Define Medial and Median

II SHORT ANSWERS

20X3=60

11. Give the meaning for the colours a) Icterus b) Polios c) Porphyros
12. Write the term for the colours a) white c) yellow c) Violet
13. Give the meaning for the numerical a) Monos b) Bini c) Miri
14. Write the term for the numerical a) Four b) Seven c) Eight
15. Write the meaning for the phobia a) Apnephobia b) Chormatophobia c) Erythrophobia
16. Write the phobia for a) Fear of dogs b) Fear of girls Fear of children
17. Give the meaning for the prefix a) Contra b) Sym c) Sub
18. Write the prefix for a) Before b) Bad c) Across
19. Give the meaning for the suffix a) Mania b) Oma c) it is
20. Give the meaning for the operative suffix a) Ectomy b) Pexy c) Plasty
21. Give the meaning for the symtamatic suffix a) Osis b) Spasm c) Stasis
22. Give the meaning for the roots a) Dacry b) Dactyl c) Gastr
23. Write the term for the roots a) Heart b) Joint c) Liver
24. Expand the abbreviation a) IHD b) HIV c) TAH
25. a) Inflammation of the heart is called -----
b) Hernia of the bladder is called -----
c) Enlargement of the heart is called -----
26. Define the term a) Asthenia b) Inter costal c) Macrodon
27. Define the term a) Hydrocele b) Splenomegaly c) Gastrectomy
28. Define the term a) Hysteropexy b) Cystoscopy c) Myolysis
29. Differentiate between Hypotension & Hypertension
30. Differentiate between Mucous & Mucus

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ANNUAL EXAMINATION OCTOBER / NOVEMBER -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

I LONG ESSAY (ANY TWO)

2X10=20

1. Peritoneal dialysis. Add a note on its complications.
2. Describe the principles of Haemodialysis and add a note on factors affecting ultrafiltration (5+5)
3. Mention the types and sites of Venous Catheterisation. write the immediate and long term complications (4+4+3)

II WRITE SHORT NOTES (ANY TEN)

10X5=50

4. Heparin free dialysis
5. Preparation of dialysate
6. Deionization
7. Formaldehyde
8. First use syndrome
9. Alarms and monitors in dialysis machine
10. Medical problems in dialysis patients.
11. Proportioning of dialysate delivery
12. Types of dialyzers
13. Access recirculation
14. Universal precautions in dialysis unit
15. Management of Anaemia

III WRITE SHORT ANSWERS

10X2=20

16. Hardness of water
17. Non-medical members of dialysis team
18. Vaccines used in renal failure patients
19. Dialyzable drugs
20. Acute kidney injury.
21. Saline rinse
22. Mention two important serum electrolytes
23. Cannulation Techniques
24. Urea reduction ratio
25. Name two plasma proteins

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ANNUAL EXAMINATION OCTOBER / NOVEMBER -2023
III YEAR DIPLOMA IN DIALYSIS TECHNOLOGY(DDT)
TIME: 3 Hrs (RS -2 SCHEME) MAX MARKS: 100

QP CODE:6151, DIALYSIS-1

I. Answer any eight questions

8x5=40

1. Advantages and disadvantages of AV fistula and AV graft.
2. What is dry weight? What is the mechanism involved in ultra filtration in HD machine.
3. Describe in brief about dialysate circuit with its sensors.
4. How to monitor the AV fistula and management of low flow AV fistula.
5. Define acute kidney injury. Classify AKI on the basis of aetiology and enumerate the causes.
6. Indications of CRRT and SLED.
7. Monitoring of patient during HD with respect to vitals, access and HD machine.
8. Enumerate the cause of blood clotting during HD and its management.
9. What are the medical complications seen during HD and how to manage them?
10. How will you assess the adequacy of PD and factors affecting it?

II. Short answers

20x3=60

11. Medical problems in dialysis patients.
12. Name disinfectants used in sterilization of dilayers.
13. Three indications of reducing the dose of dialysis.
14. Renal diet.
15. What is conductivity and two factors affecting it?
16. Name three viral infections seen in HD patients.
17. What is hardness of water and its effects on RO plant and HD machine?
18. Name three diuretics.
19. Name three anti hypertensive drugs.
20. What are normal pulse rate and BP and respiratory rate per minute?
21. Name three antibiotics used in infection of dialysis catheter.
22. What are middle molecules? Write about their clinical significance.
23. What are the steps in hand washing?
24. Write three chemicals used to disinfect dialysis machine.
25. What are the common organisms causing catheter exit site and blood stream infection?
26. Name three temporary vascular accesses
27. Name the components of rule of 6
28. Steal syndrome
29. Name the steps for using central venous catheter.
30. Three indications of heparin free dialysis.

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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 ESSAY(Answer any two)

2x10=20

- 1) Define retinoscopy. Mention its types and stages and briefly describe its procedure.
- 2) Write in detail about slit lamp.
- 3) Write about laying trolley for cataract surgery?

SHORT NOTES (Answer any Ten)

5x10=50

- 4) Fumigation
- 5) Fitting and checking of spectacles.
- 6) Write indications and uses of Keratometer.
- 7) Cutting of eyelashes before cataract surgery-how and why ?
- 8) Tonometry
- 9) How to instill eye drops and ointment into conjunctival sac?
- 10) Indirect Ophthalmoscope.
- 11) Synaptophore.
- 12) How do you set up trolley for dressing?
- 13) Optical aberrations
- 14) Lacrimal syringing.
- 15) Irrigation of eye and where is it done

SHORT ANSWERS

2X10=20

- 16) Tying of ocular bandage.
- 17) Two uses of Synaptophore.
- 18) Two causes for dull fundal glow on retinoscopy
- 19) Define Low Vision
- 20) Two uses of contact lens
- 21) Two instruments used in chalazion surgery.
- 22) Two instruments used in squint surgery.
- 23) Types of ophthalmoscopes.
- 24) Post mydriatic test.
- 25) Two types of gonioscopes.

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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

I. Short Notes, answer Any EIGHT Questions

8x5=40

1. Method & indication of ETO Sterilization
2. What is fumigation? Describe methods of fumigation in OT (Operation Theatre)
3. Phacoemulsification machine
4. What Is CSSD . Describe various function of CSSD.
5. Describe various sutures used in ophthalmology
6. Describe various Gas cylinders used in OT & their colour coding
7. Anaesthesia Machine
8. Endotracheal Tubes
9. Describe the various drugs used in inhalation anaesthesia (General Anaesthesia)
10. Describe the various drugs used in intra venous anaesthesia (General Anaesthesia)

II. Short Answers

20x3=60

11. Describe type of anaesthesia used for eye surgery
- 12 . Applying indicators for autoclaving
13. Describe methods of eye Bandaging
14. Types of autoclaves
15. How to shift Blind patient from ward to OT
16. Describe Prophylaxis following exposure to HIV in OT
17. Maintenance of operating microscope
18. Three indication of suture in eye surgery.
19. Steps of chalazion surgery
20. Describe Various Instruments used in small Incision cataract surgery
21. Colour coding of Bio medical waste disposal
22. Uses of suction apparatus
23. Commonly used IV fluids
24. Chemical sterilization.
25. Three instruments used in Keratoplasty.
26. Uses of indirect ophthalmoscope
27. Uses of slit lamp biomicroscope
28. Describe ophthalmic trial set & various lenses
29. Types of tonometer
30. Describe procedure for calculating IOL Power

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ANNUAL EXAMINATION OCTOBER / NOVEMBER -2023
III YEARDIPLOMA IN DENTAL MECHANICS(DDM)
TIME: 1Hrs30Mins (RS -2 SCHEME) MAX MARKS: 50

QP CODE:6171, COMPLETE DENTURES

I. WRITE SHORT NOTES ON ANY FOUR

4 X 5 = 20

- 1) Mean value articulator with Diagram
- 2) Posterior palatal seal
- 3) Cast preparation and trimming
- 4) Selection of anterior teeth
- 5) Relining and rebasing

II. WRITE SHORT ANSWERS

10 X 3 = 30

- 6) Uses of Occlusal rims
- 7) Repair of denture
- 8) Compensating curves
- 9) Types of cast
- 10) Acrylic curing cycles
- 11) Denture polishing agents
- 12) Incisive papilla
- 13) Laboratory remounting
- 14) Physical stages of polymerization
- 15) Non anatomic teeth

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III YEAR DIPLOMAIN DENTAL HYGIENE (DDH)
TIME: 3 Hrs (RS -2 SCHEME) MAX MARKS: 100

QP CODE:6181, ETIOLOGY AND PATHOGENESIS OF PERIODONTAL DISEASE

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

1. Define and classify periodontal pocket.
2. Macroscopic features of gingiva.
3. Functions of periodontal ligament
4. Classify periodontal instruments.
5. Define dental plaque and explain stages of plaque formation.
6. Write differences between supra and subgingival calculus.
7. Functions of saliva.
8. Define and classify cementum.
9. Gingival fibers.
10. Clinical features of gingivitis

II. SHORT ANSWERS **20X3=60**

11. Types of gingiva.
12. Ankylosis of tooth.
13. Name extrinsic stains.
14. Fenestration.
15. Name theories of calculus formation.
16. Gingival abscess
17. Modes of attachment of calculus..
18. Composition of saliva.
19. Classification of gingival recession.
20. Classification of dental calculus.
21. Cemento enamel junction (CEJ).
22. Name gingival epithelium.
23. Classify dental plaque.
24. Plunger cusp
25. Name acute gingival lesions
26. Bundle bone.
27. Blood supply to gingiva.
28. Food impaction.
29. Hyper cementosis.
30. Name layers of keratinized epithelium.

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ANNUAL EXAMINATION OCTOBER / NOVEMBER -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. What are the cardinal signs of inflammation? Write in brief about causes of inflammation.
2. Write in brief about poliomyelitis.
3. Write in brief about Peptic ulcer.
4. Describe in brief about Bronchial Asthma.
5. Describe in brief about Cirrhosis of liver.

SHORT NOTES

10x3=30

6. Kwashiorkor.
7. Write in brief about Pyogenic Meningitis.
8. Write in brief about Gout.
9. Mention any 3 features of Myocardial Infarction.
10. Mention any 3 types of infarction
11. Write in brief about Hypertrophy.
12. Mention any 3 causes of Anemia.
13. Mention any 3 complications of wound healing.
14. Give a brief account of Gangrene.
15. What is the causative agent of Leprosy? Mention types of leprosy.

QP CODE:5192

SECTION B: MICROBIOLOGY

Write Short notes (any four)

4 X 5 = 20

16. Define infection. List different routes of transmission of infection
17. Define pandemic. Write the measures to prevent spread of swine flu infection
18. Standard precautions in hospital infection control
19. Humoral immunity and its role in immunity
20. Classify hypersensitivity reactions. Write a note type IV hypersensitivity reaction.

Write Short answers

10 X 3 = 30

21. Name three chemical disinfectants
22. Causative agent of Malaria.
23. Name three organisms causing respiratory tract infection
24. Routes of transmission of HIV
25. Define Endogenous. Give example
26. Care of patient with diabetic ulcer
27. Mode of action of penicillin
28. Name three hospital acquired infections
29. Polio vaccine
30. Name three anaerobic bacteria

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ANNUAL EXAMINATION OCTOBER / NOVEMBER -2023
FIRST YEAR ALL CERTIFICATE COURSES
TIME: 1Hrs 30 Mins (RS -1 SCHEME) MAX MARKS: 45

QP CODE: 1101,PHYSICS

I LONG ESSAY –ANSWER ANY ONE

10×1=10

1. State and explain gas laws.
2. What are resistors? Explain the combination of resistors.

II WRITE SHORT NOTES ON ANY FIVE

5×5=25

3. Surface tension.
4. Refraction
5. Ultrasonic
6. Coulomb's law
7. Cathode rays
8. Nuclear reactor.
9. Dispersion

III WRITE SHORT ANSWER

5×2=10

10. Light
11. Newton's law of gravitation
12. Kinetic energy
13. Define heat and temperature
14. Artificial satellites

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FIRST YEAR ALL DIPLOMA COURSES
TIME: 3Hrs (RS -2 SCHEME) MAX MARKS: 100

QP CODE: 4101, PHYSICS

I SHORT NOTES –Answer any EIGHT questions.

8×5=40

1. Explain potential energy and kinetic energy with example.
2. State and explain Bernoulli's theorem.
3. What is surface tension? Write a note on capillarity.
4. What is thermometer? Explain the types.
5. Match the following

a) Velocity	Steady flow of liquid
b) Pressure	Temperature remains constant
c) Stress	Force/area
d) Streamline motion	deforming force
e) Isothermal process	ms^{-1}
6. What is reflection? State the laws.
7. State and explain Ohm's law.
8. Explain the production of X-rays.
9. Write a note on ultrasonography.
10. Multiple choice questions
 - a) Distance between two consecutive crests and troughs is
 - i) Amplitude ii) Wavelength iii) Wave motion iv) Frequency
 - b) Atomic number is number of
 - i) Protons ii) Neutrons iii) Electrons iv) Molecules
 - c) The device which converts light energy into electrical energy is called
 - i) Transistors ii) Photoelectric cell iii) Diode iv) Thermistor
 - d) A substance which does not allow current to pass through it is.....
 - i) Conductor ii) Semiconductor iii) Insulator iv) Resistor
 - e) S.I Unit of frequency is.....
 - i) Metre ii) Hertz iii) Watt iv) Second

II SHORT ANSWERS

20×3=60

11. Define physical quantity and unit with example.
12. Write a note on acceleration due to gravity.
13. Explain modulus of elasticity.
14. Explain floatation with example.
15. Define cohesion and adhesion.
16. Explain conduction of heat.
17. State and explain Charles' law for volume.
18. What is optical fibre? Write two applications.
19. Light.

20. Fill in the blanks

- i) Dimension of work is
- ii) Rate of change of velocity is.....
- iii) The substance which reflects light is called.....

21. Define real image and virtual image.

22. What are photo cells? Mention any two uses.

23. Write a note on radioactive safety measures.

24. Explain p-type semiconductor.

25. Explain the action of NPN transistors.

26. What is an ammeter? Explain.

27. Define i) Electric intensity ii) Electric field iii) Electric potential

28. Write a note on interference of light.

29. What is a thermistor? Mention the uses.

30. Answer the following

- a) What is doping?
- b) What is spectrophotometer?
- c) Name the lens which converges the beam of light after refraction.

KARNATAKA NURSING & PARA MEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY
PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, OCTOBER /NOVEMBER- 2023
I YEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY(DMLT)
TIME: 3 Hrs **(RS -1 SCHEME)** **MAX. MARKS: 90**

QP CODE: 2103, BIOCHEMISTRY

I. Long Essay (Answer any two)

2X10=20

1. Define Protein. Classify them with suitable examples and add a note on its functions. (2+5+3)
2. Define enzymes. Classify enzymes with examples. Name any four enzymes used for diagnostic purposes. (2+4+4)
3. Explain with neat diagram photoelectric colorimeter and its uses in the laboratory. (7+3)

II. Short Essay (Answer any ten)

10X5=50

4. Compound Lipids
5. Factors affecting enzyme activity
6. Structure of Atom
7. Classification of Lipids with Examples
8. Denaturation of proteins.
9. Centrifuges
10. Buffers and indicators
11. Theory of Acid-base titration
12. Phospholipids
13. Functions of Minerals
14. Beer-Lambert's Law
15. Glycogen

III. Short answer

10X2=20

16. Name non-essential fatty acids
17. Name two reducing sugars
18. Write the normal level of serum calcium
19. Ketosugar
20. Pipette and autopenettes
21. Uses of Hot air oven in Laboratory
22. Seliwanoff's test
23. Name two sulphur-containing amino acids.
24. Name two strong acids
25. Uses of pH meter

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PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, OCTOBER /NOVEMBER- 2023
II YEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY(DMLT)
TIME: 3 Hrs **(RS -2 SCHEME)** **MAX. MARKS: 100**

QP CODE: 5103, BIOCHEMISTRY

I. SHORTNOTES: ANSWER ANY EIGHT

8x5=40

1. Different types of balances used in laboratory.
2. Factors affecting enzyme activity.
3. Anticoagulants used in specimen collection.
4. Colorimeter.
5. pH meter.
6. What are indicators? How are they classified?
7. Different theories of acids and bases.
8. Briefly describe any 5 physical characteristics of abnormal urine.
9. Refrigerator – different types, uses and maintenance.
10. Different types of centrifuge and their uses.

II. WRITE SHORT ANSWERS

20X 3 = 60

11. Cuvettes- types and importance.
12. Desiccators.
13. Hot air oven.
14. Standard solution.
15. How do you prepare 1 normal HCl.
16. Auto pipettes - types and uses.
17. Molar solution.
18. What is volumetric flask and mention its significance.
19. Incubator.
20. Buffer.
21. Define acids with examples.
22. Name any three plasma proteins.
23. What are salts, give examples.
24. What is lab request form?
25. Name different types of lipoproteins.
26. Isoenzyme.
27. What are Nucleotides and give two examples.
28. Name two acidic and two basic amino acids.
29. Purine bases.
30. Micro minerals- definition and examples.

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PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, OCTOBER /NOVEMBER- 2023
I YEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR (DHI)
TIME: 3 Hrs **(RS -1 SCHEME)** **MAX. MARKS: 90**

QP CODE: 2111, COMMUNITY MEDICINE PAPER-1

I. Answer Any TWO.

2x10=20

1. What are social problems. Enumerate few and describe any two problems in detail.(2+3+5)
2. Enumerate various organs of female reproductive system and write their functions.
3. What is epidemiological triad. Add a note on multifactorial causation of disease.(3+7)

II. Short Notes on any TEN.

10x5=50.

4. Functions of thyroid gland.
5. Function of platelets
6. Social security.
7. Levels of prevention.
8. Control measures of helminthic diseases.
9. Determinants of health.
10. Levels of prevention.
11. Difference between voluntary and involuntary muscles.
12. Functions of lung.
13. Drug Abuse.
14. Enumerate the agent factors.
15. Urban society.

III. Write Short Answers.

2x10=20.

16. Epidemic.
17. Hormones.
18. Define health.
19. Prevalence.
20. Medico Social Worker.
21. Nuclear Family.
22. Cell Division.
23. Name two live vaccines.
24. Infant mortality.
25. Two functions of kidney.

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PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, OCTOBER /NOVEMBER- 2023
II YEAR DIPLOMA IN HEALTH INSPECTOR (DHI)

TIME: 3 Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE: 5111, COMMUNITY MEDICINE PAPER-1

I. SHORT NOTES: ANSWER ANY EIGHT

8X5=40

1. Write neat diagram of Heart & label the parts.
2. Explain self-care in health.
3. Mention Functions of kidney.
4. Mention physical dimension of health. How will you evaluate physical Health.
5. Determinants of health.
6. Role of family in health and diseases.
7. Mention at least four mortality indicators. Explain any one.
8. Mention five health care delivery indicators.
9. Levels of health care and Enlist functions of a hospital.
10. Explain cultural factors with respect to health and disease.

II. SHORT ANSWERS

20X3=60

11. Functions of Lungs.
12. Define Health.
13. Functions of Red Blood Cells.
14. Define Family and write types of families.
15. Mention six dimensions of Health.
16. Explain Health Team Concept.
17. Mention modifiable risk factors for Non-Communicable diseases.
18. Mention Thyroid Hormones and its functions.
19. Define Community and name three Social institutions.
20. Name three Social Problems and its effect on Society.
21. Mention various good and bad customs linked with Maternal and Child Health.
22. Name Sensory Organs.
23. Broken Family and its effect on children.
24. Explain Epidemiological Triad with examples.
25. Define Maternal Mortality Rate. Give two causes for Maternal Mortality Rate.
26. Germ theory of diseases.
27. Explain Iceberg Phenomenon with a neat diagram and example.
28. Mention different levels of Prevention.
29. What is Health Promotion and mention three interventions.
30. Mention different types of Rehabilitation.

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PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, OCTOBER /NOVEMBER- 2023
I YEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN MEDICAL X-RAY TECHNOLOGY(DMXT)

TIME: 1Hrs 30 Mins

(RS -1 SCHEME)

MAX. MARKS: 45

QP CODE: 2122, ANATOMY

I. Long Essay (Any 2)

2 x 10 = 20

1. Classify the Epithelium with examples.
2. Name the parts of the Urinary System with a labelled diagram. Describe Kidney in brief. (5+5)
3. Name the parts of Male reproductive system with a labelled diagram. Describe testis in brief. (5+5)

II. Short Notes (Any 3)

3 x 5 = 15

4. Stomach
5. Left Lung
6. Elbow Joint
7. Para Nasal Air Sinuses

III. Short Answers

5 x 2 = 10

8. Name the types of cartilages
9. Write two differences between Large Intestine and Small Intestine
10. Bones forming Hip Joint
11. Name parts of the Brain
12. Name the bones of the Hand

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PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, OCTOBER /NOVEMBER- 2023
II YEAR DIPLOMA IN MEDICAL IMAGING TECHNOLOGY(DMIT)
TIME: 1Hrs 30 Mins (RS -2 SCHEME) MAX. MARKS: 50

QP CODE: 5123, ANATOMY

SHORT ANSWERS- ANSWER ANY FOUR

4 X 5 = 20

1. Describe knee joint
2. Classify joints with examples
3. Describe heart and its blood supply
4. Name all endocrinal glands and explain thyroid gland
5. Describe Stomach

SHORT NOTES

10 X3 = 30

6. Describe radius.
7. Describe diaphragm in brief
8. Describe blood supply of long bone
9. Mention all bones forming thoracic cage
10. Define extension
11. Name three bones of skull
12. Name different anatomical planes
13. What is hysterosalpingography
14. Mention 3 differences between Small intestine and large intestine
15. What is carotid angiogram? Name different of carotid arteries in the neck

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PARA MEDICAL BOARD, BENGALURU**

ANNUAL EXAMINATION, OCTOBER /NOVEMBER- 2023

I YEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN OPERATION THEATRE TECHNOLOGY(DOTT)

TIME: 3Hrs

(RS -1 SCHEME)

MAX. MARKS: 90

QP CODE: 2132, SECTION A: BIOCHEMISTRY

I. Long Essay - answer any ONE

1x10=10

1. What are the abnormal constituents of urine? Discuss the qualitative test methods used to detect them and in which conditions they are excreted. (3+4+4)
2. Outline the formation of creatinine. Write the name and principle of the test to detect creatinine in urine. (5+2+3)

II. Write short notes on any TWO

2x5=10

3. Digestion of carbohydrates
4. Disorders of acid- base balance
5. Mention the normal blood glucose levels and explain the factors regulating blood glucose level.

III. Write short answers:

5x2=10

6. Mention the normal levels of electrolytes.
7. What is the specific gravity of normal urine. How is the specific gravity of urine measured?
8. Name the composition of lactose? Mention the enzyme which helps in digestion of lactose.
9. Define pH. Factors maintaining blood pH
10. Define base and give an examples.

QP CODE: 2133, SECTION B: PHARMACOLOGY

IV ANSWER ANY ONE

1X10=10.

11. Name five anti tubercular drugs and write 2 adverse effects of INH and Rifampin.
12. Name SIX Local anaesthetics and explain the uses and techniques of local anaesthesia.

V. WRITE SHORT NOTES OF ANY TWO.

2X5=10.

13. Intravenous route of drug administration
14. Mention five drugs from plant source.
15. Tetracyclines.

VI. WRITE SHORT ANSWERS.

5X2=10.

16. Name TWO NSAIDs.
17. Name TWO Antiseptics drugs.
18. Mention TWO anti viral drugs.
19. Name TWO antihelminthic drugs.
20. Idiosyncrasy.

QP CODE: 2134, SECTION C: MICROBIOLOGY

VII. LONG ESSAY (answer any one)

1x10 =10

21. Define and classify Sterilisation. Write a note on Operation theatre sterilisation. (2+3+5)
22. Draw a neat labelled diagram of a bacterial cell. Describe about bacterial spore. (5+5)

VIII. SHORT NOTES (answer any two)

2 x 5=10

23. Mycobacterium tuberculosis
24. Hospital acquired infections
25. Autoclave

IX. SHORT ANSWERS (answer all)

5x 2=10

26. Name two contributions of Sir Joseph Lister
27. Name two Antiseptics
28. Name two Gram negative bacteria
29. Name TWO DNA viruses
30. Biomedical waste disposal

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PARA MEDICAL BOARD, BENGALURU**

ANNUAL EXAMINATION, OCTOBER /NOVEMBER- 2023

II YEAR DIPLOMA IN OPERATION THEATRE& ANAESTHESIA TECHNOLOGY(DOT& AT)

TIME: 3Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE: 5133 SECTION – A BIOCHEMISTRY

I. SHORT NOTES: ANSWER ANY FIVE 5 X 5 = 25

1. Nucleotides – definition, types, examples and importance.
2. Mention Three Enzymes. Write factors affecting enzyme activity.
3. Role of kidney in acid base balance.
4. Buffer solution – definition, types and example.
5. Liver function tests.
6. Phospholipids.

II. SHORT ANSWERS 5X 3 = 15

7. Different types of salts
8. Essential fatty acids – definition, examples and importance.
9. Indicators – definition, types and examples.
10. Isoenzymes – definition, types, examples and importance.
11. Name any three plasma proteins and their functions.

QP CODE: 5134, SECTION B: APPLIED PHARMACOLOGY

III. SHORT NOTES- ANSWER ANY THREE 3 X 5 = 15

12. Mention the advantages and disadvantages of Intra-Venous route of Drug administration
13. Mention three Local Anaesthetics. Mention the techniques of administration of Local Anaesthetics and mention three contraindications for Spinal Anaesthesia
14. Diazepam
15. Intra venous inducing agents

IV Short Answers 5 X 3 = 15

16. Mention three skeletal muscle relaxants
17. Name three Penicillins and mention three uses of them
18. Mention three drugs used in Anaphylactic shock
19. Mention three drugs used for pre Anaesthetic medication
20. Define Anti-septics and mention two Antiseptics

QP CODE: 5135, SECTION C: MICROBIOLOGY

V. SHORT ESSAY – ANSWER ANY THREE 3x5=15

- 21 Louis Pasteur
- 22 Autoclave
- 23 Passive immunity
- 24 Bacterial cell wall

VI. SHORT NOTES 5x3=15

25. Biomedical waste management.
26. List the materials sterilized in Hot air oven
27. Name Three RNA viruses.
28. Name three bacteria causing nosocomial infection
29. Name three Gram positive bacteria

**KARNATAKA NURSING & PARA MEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY
PARA MEDICAL BOARD, BENGALURU**

ANNUAL EXAMINATION, OCTOBER /NOVEMBER- 2023

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

TIME: 3Hrs

(RS -1 SCHEME)

MAX. MARKS: 90

QP CODE: 2142, SECTION A: ANATOMY

I. LONG ESSAY (ANSWER ANY ONE)

1 X 10 = 10

1. Name the parts of Excretory system. Write briefly about kidney. (5+5)
2. Name the parts of Male Reproductive System with a labelled diagram. Describe testis in brief. (5+5)

II. SHORT NOTES (ANSWER ANY TWO)

2 X 5 = 10

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

III. SHORT ANSWERS

5 X 2 = 10

6. Name four muscles of thorax.
7. Name four Tarsal Bones
8. Name the arteries of Lower Limb
9. Name the Ear Ossicles
10. Name the parts of Brain

QP CODE: 2143, SECTION B: PHYSIOLOGY

IV. Write short notes on any FOUR.

4x5=20

11. Functions of Stomach.
12. Hormones of Anterior Pituitary gland.
13. Phases of Cardiac cycle.
14. With a neat diagram, classify White blood cells.
15. Spermatogenesis.

V. Write short answers.

5x2=10

16. Name any two proteins of muscle
17. Name the Ossicles of middle ear.
18. Draw a neat labelled diagram of normal ECG.
19. Functions of Blood.
20. Define Pulse. Give the normal value of Pulse rate.

QP CODE: 2144, SECTION C: PATHOLOGY & MICROBIOLOGY

SECTION –C, PATHOLOGY& MICROBIOLOGY

VI. Long Essay (Answer any one)

1 x 10= 10

21. Explain the importance of microbiology-in relation to maintenance of medical records
22. Explain importance of record keeping in histopathology.

VII. Short Essay on any two

2x 5 = 10

23. Mention five common infections
24. Mention five tests performed in hematology with their uses.
25. Different types of microscopes

VIII. Short Answers

5x 2 = 10

26. Name two gram negative organisms.
 27. Widal test
 28. Name two serology tests.
 29. What is Hypertrophy & give examples.
 30. Mention four bacteria of medical importance.
-

KARNATAKA NURSING & PARA MEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY

**PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, OCTOBER /NOVEMBER- 2023
II YEAR DIPLOMA 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 Name different parts of GIT and describe stomach in detail.
2. Name different parts of nervous system and describe cerebrum briefly.
3. Kidney

SHORT ANSWER

10 X3 = 30

4. Name all lymphatic organs in the body
5. Define abduction
6. Name different types of cartilage with example
7. Describe femur bone
8. Describe diaphragm.
9. Describe blood supply of heart
10. Name any three difference between right and left lung
11. Describe synovial joint
12. Name the anatomical movements across joints
13. Name all organs of special senses

QP CODE: 5144, SECTION B: PHYSIOLOGY

WRITE SHORT NOTES (ANSWER ANY THREE QUESTIONS)

3 X 5 = 15

14. Functions of saliva.
15. Draw neat labelled diagram of Cell with its organelles.
16. Functions of Plasma Proteins.
17. Mention Errors of Refraction.

WRITE SHORT ANSWERS

5 X 3 = 15

18. Normal count of a) RBC b) WBC c) Platelets
19. Functions of Middle Ear.
20. Define Receptor. Types of Sensory Receptors.
21. Name two Clotting Factors.
22. Name the Body fluid compartments.

QP CODE: 5145, SECTION C: PATHOLOGY & MICROBIOLOGY

SHORT ESSAY – ANSWER ANY THREE

3x5=15

23. Define acute inflammation. Mention types of inflammation with examples.
24. Define necrosis. Write different types of necrosis.
25. Write differences between benign and malignant tumors.
26. Osteoarthritis.

SHORT NOTES

5x3=15

27. Mention 4 viruses of medical importance.
28. Mention 4 parasites of medical importance.
29. Gastric ulcer.
30. Epistaxis causes.
31. Name 2 diseases caused by vitamin D deficiency.

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PARA MEDICAL BOARD, BENGALURU

ANNUAL EXAMINATION, OCTOBER /NOVEMBER- 2023

I YEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN DIALYSIS TECHNOLOGY(DDT)

TIME: 3 Hrs (RS -1 SCHEME)

MAX. MARKS: 90

QP CODE: 2153, SECTION A: BIOCHEMISTRY

I. Long Essay - answer any ONE **1x10=10**

1. What is urea? Outline urea cycle. Mention the importance of urea cycle. (2+4+2)
2. Briefly describe the process of digestion and absorption of carbohydrates. (5+5)

II. Write short notes on any FIVE **5x5=25**

3. Applications of conductivity meter
4. Test to detect sugar and ketone bodies in urine
5. Alkalosis
6. Renal function tests
7. Factors maintaining the pH of blood
8. Non-protein Nitrogenous substances (NPN) in urine

III. Write short answers: **5x2=10**

9. Write two applications of chromatography
10. Name two causes of respiratory acidosis
11. What is hyperglycaemia? Name two hyperglycaemic hormones.
12. Types of salts
13. What are acids? Give an example.

QP CODE: 2154, SECTION B: MICROBIOLOGY

IV. LONG ESSAY (answer any one) **1x10 =10**

14. Classify Hepatitis viruses. Write a note on laboratory diagnosis and preventive measures for Hepatitis B virus infection. (4+3+3)
15. Draw a neat labelled diagram of a bacterial cell. Describe about bacterial cell wall. (6+4)

V. SHORT NOTES (answer any five) **5 x 5=25**

- 16 Modes of transmission of HIV
- 17 Antiseptics
- 18 Hot Air Oven
- 19 Hospital acquired infections
- 20 Candidiasis
- 21 Passive immunity

VI. SHORT ANSWERS (answer all) **5x 2=10**

- 22 Name two contributions of Louis Pasteur
- 23 Biomedical waste disposal
- 24 Name two killed vaccines
- 25 Universal safety precautions
- 26 Name two motile bacteria

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PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, OCTOBER /NOVEMBER- 2023
II YEAR DIPLOMA IN DIALYSIS TECHNOLOGY(DDT)

TIME: 3 Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE: 5153 SECTION A: BIOCHEMISTRY

I. Short notes (answer any four questions). 4×5=20

1. Define enzyme? Write factors affecting enzyme activity.
2. Discuss in brief about abnormal constituents of urine.
3. Write in brief about Kidney function tests.
4. Define buffer? Write different types of buffers.
5. Define lipids? Write its classification.

II. Short answers. 10×3=30

6. Respiratory acidosis.
7. Different types of RO water.
8. Creatinine clearance test.
9. Write three differences between DNA and RNA.
10. Deficiencies of vitamin D.
11. Define isoenzyme? Write two examples.
12. Lipid profile.
13. What are proteins and mention their functions.
14. common indicators used for acids and bases.
15. Essential amino acids with examples.

QP CODE: 5154

SECTION B: MICROBIOLOGY

III. SHORT NOTES – ANSWER ANY FOUR 4x5=20

- 16 Koch's postulates
- 17 Pasteurization
- 18 Needle stick injury
- 19 Write types of Hand hygiene. Describe the steps of hand washing
- 20 Morphology of Bacteria.

IV. SHORT ANSWERS 10x3=30

- 21 Name three materials sterilized in autoclave
- 22 Name any three commensal flora
- 23 Draw a neat labelled diagram of Hepatitis B virus
- 24 Sterilization control
- 25 Routes of transmission of HIV
- 26 Name three Gram positive bacteria
- 27 Name three nosocomial infections
- 28 Name three chemical disinfectants
- 29 Fumigation
- 30 Active immunity

KARNATAKA NURSING & PARA MEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY
PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, OCTOBER /NOVEMBER- 2023
II YEAR DIPLOMA IN OPHTHALMIC TECHNOLOGY(DOT)
TIME: 3 Hrs(RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 5163, OPHTHALMOLOGY PAPER-2

I. Short Notes, Answer Any EIGHT Questions

8x5=40

1. Define Cataract. Describe stages of maturation of Cortical Cataract
2. Classify Corneal Ulcer
3. Lacrimal sac syringing method & interpretation
4. Describe five differences between acute Conjunctivitis & Acute iridocyclitis
5. Binocular Single Vision
6. Visual field Defects in Glaucoma.
7. WHO Classification of Vitamin A Deficiency
8. Stages of Diabetic retinopathy
9. Describe first Aid Management of Acute alkali injury
10. Optic Disc Changes in Glaucoma

II. Short Answers :

20x3=60

11. Treatment of VIT A deficiency
12. Ophthalmia Neonatorum
13. complication of corneal ulcer
14. conservative management of cataract
15. Describe risk factors for Diabetic Retinopathy
16. Hypertensive Retinopathy
17. Write morphological classification of cataract
18. Macular Function test
19. Describe three causes for sudden loss of vision
20. Describe procedure for removal of corneal foreign body
21. Principle of applanation Tonometry
22. Define & classify Squint
23. Describe types of cataract surgery
24. Drugs Used to reduce intraocular pressure
25. Screening for Glaucoma
26. A scan Biometry
27. Chalazion
28. Methods to visualize optic disc
29. Non-Contact tonometer
30. Three common Eyelid infections.

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PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, OCTOBER /NOVEMBER- 2023
I YEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN DENTAL MECHANICS
(DDM)
TIME: 1Hrs30Mins (RS -1 SCHEME) MAX. MARKS: 45**

QP CODE:2172, APPLIED ORAL ANATOMY

- I. LONG ESSAY - ANSWER ANY ONE 1 X 10 = 10**
- 1) Describe the Anatomy of Mandibular permanent first molar.
 - 2) What are the muscles of mastication. Write in detail about function of masseter muscle
- II. WRITE SHORT NOTES ON ANY FIVE 5 X 5 = 25**
- 3) Muscles of facial expression
 - 4) Movements of temporomandibular joint
 - 5) Significance of incisive papilla
 - 6) Tooth caving.
 - 7) Class II and class III occlusion
 - 8) Maxillary lateral incisor
 - 9) Muscles of tongue
- III. WRITE SHORT ANSWERS 5 X 2 = 10**
- 10) CPC line.
 - 11) Different tooth numbering system.
 - 12) Freni and its significance
 - 13) Mid-palatine raphe
 - 14) Lateral throat form

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PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, OCTOBER /NOVEMBER- 2023
II YEAR DIPLOMA IN DENTAL MECHANICS(DDM)
TIME: 1Hrs30Mins (RS -2 SCHEME) MAX. MARKS: 50

QP CODE:5172, APPLIED ORAL ANATOMY

SHORT ANSWERS- ANSWER ANY FOUR

4 X 5 = 20

1. Describe structure of tooth in brief with the neat labeled diagram
2. Describe anatomy of tongue
3. Describe palate.
4. Describe temporomandibular joint
5. Describe nerve supply of upper and lower teeth.

SHORT NOTES

10 X3 = 30

6. Describe palatine tonsil
7. Describe gums (gingiva)
8. What is dental formula and give an example
9. Parotid duct.
10. Describe temporalis muscle
11. Describe eruption of permanent teeth.
12. Write labelled diagram of right central incisor.
13. Describe functions of teeth
14. Describe orbicularis oris muscle.
15. Branches of Facial nerve.

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PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, OCTOBER /NOVEMBER- 2023
II YEAR DIPLOMA IN DENTAL HYGIENE (DDH)
TIME: 1 Hrs 30Mins (RS -2 SCHEME) MAX. MARKS: 50

QP CODE:5183

SECTION A: GENERAL PATHOLOGY & MICROBIOLOGY

I. SHORT NOTES ANSWER ANY FOUR QUESTIONS 4 X 5 = 20

1. Name the Gram positive and Gram negative bacteria's and stains used in their diagnosis?
2. Describe the investigations done in Microbiology ?
3. Define inflammation ,describe vascular events of acute inflammation?
4. Periodontal Infections.
5. Organisms causing dental caries? Write its complications.

II SHORT ANSWERS 5 X 3 = 15

6. Dental Hygiene.
7. Name common Fungal infection.
8. Benign and Malignant tumours of oral cavity.
9. Mention four bacteria of medical importance.
10. Name Three diseases affecting lung.

QP CODE:5184

SECTION B: PHARMACOLOGY

III. Short Essay (Answer any one) 1 X 5 = 5

11. Mention four commonly used Non Steroidal Anti- Inflammatory Drugs. Mention two uses and two adverse effects of Ibuprofen.
12. Mention any four local anaesthetics and write a note on Spinal Anaesthesia..

IV Short Answers. 5 X 2= 10

13. Mention two users of glucocorticoids in dentistry.
14. Mention two uses of Amoxycillin.
15. Mention two antiseptics used in Dentistry
16. Mention two uses of Diazepam.
17. Mention two users of styptics.

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PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, OCTOBER /NOVEMBER- 2023
I YEAR DIPLOMA IN PHYSIOTHERAPY (DPT)

TIME: 3Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE:4193

SECTION A: PHYSIOLOGY

I. SHORT NOTES (ANSWER ANY FOUR)

4 x 5 = 20

1. Draw a neat labeled diagram of cell and list the functions.
2. Contraceptive methods.
3. Cardiac output: definition, normal value and determinants.
4. Oxygen dissociation curve.
5. Functions of Plasma proteins.

II. SHORT ANSWERS

10 x 3=30

6. Name the Refractive errors.
7. Draw a neat labeled diagram of Nephron.
8. Define hypoxia, name the types of hypoxia.
9. Draw ECG, name the waves and intervals.
10. Functions of Cornea.
11. Name three functions of kidney.
12. Functions of Pyramidal Tract.
13. Functions of Cerebellum.
14. Functions of ADH.
15. Name three functions of Thyroid hormone.

QP CODE:4194

SECTION B: BIOCHEMISTRY

III. Short notes (answer any four questions).

4×5=20

16. Write the effect of hormones on various metabolisms.
17. Define cell. Write functions of any four subcellular organelles.
18. Write in brief about liver function tests.
19. Write the functions and deficiencies of vitamin A.
20. Define carbohydrate? Write their classification.

IV. Short answers.

10×3=30

21. Phospholipids.
22. Denaturation of protein.
23. Write functions of proteins.
24. Define enzyme? Write two clinical importance of enzyme.
25. Essential amino acids.
26. Scurvy.
27. Detoxification.
28. Poly Unsaturated Fatty Acids (PUFA).
29. Kwashiorkor.
30. Creatinine clearance test.

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III YEAR DIPLOMA IN 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.What is arthroplasty? Explain types of arthroplasty, indication and contra indications of it.
- 2.What is TB Spine, Explain the PT management
3. Discuss causes, clinical features and management of Ankle Sprain.
- 4.Explain PT management of Above Knee amputation.
- 5.Pilon fracture? Causes, clinical features, and PT management?
6. Discuss Spinal canal stenosis? Causes, clinical features, management.
- 7.Explain about Meniscal injury of knee joint? PT management of it?
- 8.Explain about recurrent dislocation of patella? PT management of it?
9. Cervical rib? Causes, management.
10. Discuss Hand injuries? Explain mechanism of injury, Clinical features, and PT management.

SHORT ANSWERS

(20x3=60)

- 11.Pathological fracture.
- 12.Malignant bone tumor.
13. Klumpke's palsy.
14. Congenital deformity with examples.
- 15.Types of soft tissue injuries.
- 16.Fat embolism.
- 17.Deformities in Rheumatoid Arthritis.
- 18.Arthroscopy.
- 19.Charcot Joint.
- 20.CTEV
- 21.Jones fracture
- 22.Subluxation and its management.
- 23.Wrist Sprain.
- 24.Classification of leprosy.
- 25.Kyphosis.
- 26.Metatatarsalgia.
- 27.Process of healing of fracture.
- 28.Osteomalacia
29. Torticollis
- 30.Knee stiffness.

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PARA MEDICAL BOARD, BENGALURU

ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023

III YEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY(DMLT)

TIME: 3 Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE:6103, PATHOLOGY

SHORT NOTES: ANSWER ANY EIGHT

8x5=40

1. Describe the procedure of Differential Leukocyte Count. Draw a neat labeled diagram of leukocytes seen in normal Differential Leukocyte Count.
2. What are the different types of bone marrow needles? Write in brief about importance of bone marrow examination.
3. What are the instruments used in Histopathology? Write in brief about Section Cutting.
4. What are universal precautions to be followed in a blood bank.
5. Enumerate the criteria for blood donor selection. Write briefly on counseling of blood donors.
6. Describe the procedure of disposal of expired and unused blood and blood components with special reference to the importance of disinfection.
7. Vitamin D Deficiency.
8. What is Microwave Tissue Processing? Describe its procedure in brief.
9. What is mounting of specimen? Enumerate various mounting solutions and mounting jars used for mounting?
10. Describe the procedure of Osmotic Fragility Test.

SHORT ANSWERS

20x3=60

11. Name any 3 mounting media.
12. Enumerate the normal values of Differential Leukocyte Count.
13. Enumerate the materials required to do Bone Marrow Aspiration.
14. Write in brief about Clotting Time.
15. Indirect Coomb's test.
16. Draw a neat labelled diagram of normal sperm.
17. What is Osmotic Fragility Test?
18. Name any 3 instruments which are calibrated in a clinical laboratory.
19. What is Hospital Information System?
20. What are the methods of cross-matching?
21. Write in brief about Clot Retraction Test.
22. Name any 3 types of hematoxylin.
23. Frozen section
24. Write in brief about paraffin wax.
25. What are the steps of tissue processing?
26. Composition of Leishman Stain.
27. Enumerate any 3 quality control measures in histopathology.
28. Forward Blood Grouping
29. What are the biological wastes that can be segregated in a yellow colored biomedical waste disposal bag?
30. Mention any 3 blood group systems

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PARA MEDICAL BOARD, BENGALURU

ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023

II YEARDIPLOMA/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 What is Maternal Mortality Rate . what are the causes of maternal death and mention preventive measures .
- 2 Define adolescents . Problems of adolescents and their prevention (2+4+4)
- 3 What is the Population covered by Anganwadi centre, Sub-centre PHC and CHC. Describe staffing and functions of a Sub-centre in detail.

SHORT NOTES -ANSWER ANY TEN

10x5=50

- 4 National Vector Borne Disease Control Programme
- 5 Home visit by a health care worker
- 6 Balanced diet
- 7 Audio Visual aids
- 8 Temporary methods of contraception.
- 9 Sanitary inspection of an slaughter house
- 10 Food adultration
- 11 National programme for control of blindness
- 12 Infant mortality rate
- 13 Draw an Epidemiological triad for Tuberculosis disease
- 14 Thaayi card.
- 15 Role of Health inspectors in MCH programe

SHORT ANSWERS

10x2=20

- 16 List two permanent method and two temporary method of family planning
- 17 Treatment for scabies
- 18 list two antimalarial drugs
- 19 Spot maps
- 20 List Anti Tubercular drugs.
- 21 Expand the term : AYUSH
- 22 Eligible couple register
- 23 Difference between Multibacillary and Paucibacillary leprosy
- 24 List four Disinfectants and mention the group they belong
- 25 Classify Solid Waste.

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ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023

IIIYEARDIPLOMA IN HEALTH INSPECTOR (DHI)

TIME: 3 Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE: 6113, COMMUNITY MEDICINE PAPER-2

SHORT NOTES: ANSWER ANY EIGHT

8x5=40

1. Couple Protection Rate
2. Geriatric health problems
3. Medical Termination of Pregnancy Act
4. PNDT Act.
5. Health problems in adolescents
6. Define Family planning. Classify contraceptive methods
7. Demography cycle
8. Barriers of Communication
9. Postnatal complication
10. Domiciliary care

SHORT ANSWERS

20 x3=60

11. Three Benefits under MTP Act
12. Child abuse and its prevention
13. Three functions of Anganwadi worker
14. Oral Rehydration Sol.
15. Mass media in health education
16. Uses of Growth Chart.
17. Three advantages of exclusive breast feeding
18. Advantages of home visits
19. Colostrum.
20. Target couple
21. Three principles of Health Education
22. Types of Communication
23. Essential Drugs
24. Role play/ street play
25. Juvenile Delinquency
26. Vaccines for pregnant women
27. Demographic Gap
28. Couple Protection Rate.
29. Three natural methods of contraception
30. Non Contraceptive uses of Condoms.

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PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023
II YEAR DIPLOMA/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

I. LONG ESSAY – ANSWER ANY TWO

2X10=20

1. Describe the procedure and technique of IVU.
2. Define a medical record. Discuss the various types of record maintained in the radiology department.
3. Components of Multi Slice CT Scan and its uses.

II. WRITE SHORT NOTES ON ANY TEN

10X5=50

4. Skyline view
5. HSG
6. Write Any FIVE chest X Ray Poisoning.
7. Barium Swallow
8. RGU
9. Swimmer's view
10. T-tube cholangiography
11. Fistulography
12. Bronchography
13. Peripheral venography
14. Mobile X Ray
15. Lopogram

III. WRITE SHORT ANSWERS

10X2=20

16. Lateral decubitus view
17. Frog leg lateral
18. Indication of Barium enema
19. Indication of Aortography
20. Sialography
21. Scout film
22. Scaphoid view
23. Name the ionic and non-ionic contrast media
24. Barium Sulphate
25. Consent Form.

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ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023
III YEAR 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. Write short notes about contrast media used in Radiological investigations
2. Discuss the requirement of ultrasound for the special Radiological investigations of urinary system
3. Describe CT & MRI as special investigation in respiratory tract
4. Write in detail about IVU
5. Describe Barium Meal study
6. Components of Multi Slice CT Scan and its uses.
7. Peripheral venography for upper and lower limbs
8. Importance of medical record keeping
9. Radio isotope scanning of central nervous system
10. Barium Enema

SHORT ANSWERS

20X3=60

11. Percutaneous trans-hepatic cholangiography (PTC)
12. Lymphangiography
13. Sinogram.
14. Mamography
15. Operation theatre radiography
16. Use of digital subtraction (DSA)
17. Write briefly about Informed consent
18. HSG
19. MCU
20. Bronchography
21. Arthrography
22. Sialography
23. Fistulography
24. Mobile radiography.
25. Barium swallow
26. Foreign body localisation
27. Types of contrast media.
28. X- Ray Artifacts.
29. Tomography
30. Radiographic views of Chest

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PARA MEDICAL BOARD, BENGALURU

ANNUAL EXAMINATION, OCTOBER / NOVEMBER – 2023

III YEAR DIPLOMA IN OPERATION THEATRE & ANAESTHESIA

TECHNOLOGY(DOT & AT)

TIME: 3Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE: 6133, OPERATIVE PROCEDURE

I SHORT NOTES ANSWER ANY EIGHT

8X5=40

1. Cystoscopy.
2. Deviated Nasal Septum.
3. Closed reduction.
4. Types of Drain.
5. Complications of thyroidectomy.
6. Tendon Repair.
7. Colonoscopy.
8. Lipoma.
9. Cataract Surgery.
10. Lateral anal Sphincterctomy.

II SHORT ANSWERS

20X3=60

11. Laparoscopy.
12. Colostomy Care.
13. Flash Sterilization.
14. Wound Excision.
15. Foley's Catheter.
16. C- Arm.
17. Splints.
18. Sym's amputation.
19. Skin Graft.
20. OT cleaning types.
21. Surgical check list.
22. Fistulectomy.
23. Enema.
24. Scrubbing.
25. Aspirations.
26. Fasciotomy.
27. Suture materials.
28. Sterile Team members.
29. Dressing.
30. Types of Cautery.

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PARA MEDICAL BOARD, BENGALURU

ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023

II YEAR DIPLOMA/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 What is Bio-medical waste (BMW)? Discuss in detail the steps involved in segregation of BMW.
- 2 Define Controlling .write in detail control techniques in Management.
- 3 Write about analysis of hospital organization.

SHORT NOTES -ANSWER ANY TEN

10x5=50

- 4 Resources.
- 5 Team work.
- 6 House Keeping Department.
- 7 History of hospitals in India.
- 8 Enumerate various hospital committees.
- 9 Medical Audit
- 10 Mudaliar committee.
- 11 PERT
- 12 Health Insurance.
- 13 Paramedical worker
- 14 Two bin system.
- 15 Control of medical profession.

SHORT ANSWERS

10x2=20

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

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III YEAR 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. Responsibilities of Hospital Administrator
2. Fire safety in hospitals
3. Safe Injection practice
4. Describe briefly about outcome indicators in a district hospital.
5. Laundry Services.
6. Hospital acquired infection control committee.
7. Plan for dietary services in a district hospital
8. Central Sterilization Service Department
9. Nursing Superintendent - Functions
10. Briefly describe the organization of casualty and emergency services.

SHORT ANSWERS

20 x3=60

11. Administrative organization in a district hospital
12. Purchase Committee
13. Average Daily Census
14. Importance of police out [post in hospitals.
15. Functions of resident medical officer (RMO).
16. Triage in Emergency
17. Mortuary
18. High alert drugs in pharmacy.
19. Critical Value
20. Helpdesk in hospital - Uses
21. Patient feedback surveys
22. Functions of housekeeping supervisors
23. Three Functions of Medical Superintendent.
24. Health Insurance.
25. FIFO in Pharmacy
26. Enumerate three committees in an hospital
27. Labour Ward
28. ICU
29. Importance of medical record section in an hospital
30. Fire safety in hospital.

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ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023

II YEAR DIPLOMA/ 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**

I LONG ESSAY – ANSWER ANY TWO 2X10=20

1. Discuss the types of peritoneal dialysis. Add a note on indications & contraindications for peritoneal dialysis (4+3+3)
2. Renal replacement therapy.
3. What is Dwell? Write the advantages & disadvantages of I PD & CAPD (2+4+4)

II WRITE A SHORT NOTES ON ANY TEN 10X5=50

4. Newer peritoneal dialysis solutions
5. Hemoadsorption
6. Erythropoietin.
7. Dialysis in renal transplant patients
8. Peritoneal equilibration test
9. Complications of plasmapheresis
10. Immunization in dialysis patients
11. Peritonitis causes & management
12. Renal diet in peritoneal dialysis patients
13. Dialysis Dementia
14. Waste management in dialysis unit
15. Dialysis team duties & responsibilities.

III WRITE SHORT ANSWERS 10X2=20

16. Name two important tests involved in renal transplantation
17. Write any two causes for acute renal failure
18. Normal values of bleeding time & clotting time
19. Name two modes of replacement fluids infusion in CRRT
20. Name two poisons removed by haemodialysis
21. Name two immunosuppressant drugs
22. Name any two types of peritoneal catheters
23. Name two replacement fluids used in plasmapheresis
24. Microalbuminuria
25. Mention TWO Antihypertensives.

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

QP CODE: 6153, DIALYSIS PAPER-2

I. Short notes Answer any eight questions

8x5=40

1. Describe anatomy and physiology of peritoneal membrane
2. What is hemoperfusion? Name the indications of hemoperfusion.
3. What are the merits and demerits of HD over PD?
4. Describe psychosocial problems in patients undergoing maintenance dialysis.
5. Describe about dialysis team and responsibilities of each member.
6. How will you assess the adequacy of PD and factors affecting it?
7. Indications of CRRT and SLED.
8. What is Exit site infection? What are its characters and treatment.
9. Monitoring of critical patient undergoing SLED/ CRRT
10. Factors affecting removal of drugs by haemodialysis and haemoperfusion.

III. Short answers

20x3=60

11. Name three antibiotics used in infection of PD catheter.
12. Inotropes.
13. Types of CAPD catheter infection.
14. Define CCPD, CAPD, and NIPD.
15. Mention ionotropes used in managing hypotension during hemodialysis.
16. Name three drugs removed by haemodialysis
17. Types of PD fluids according to osmotic agents.
18. Vaccines for CKD Patients.
19. Name three drugs removed by hemoperfusion.
20. Laparoscopic Nephrotomy
21. Three complications of hemoperfusion.
22. What should be the blood flow rate and dialysate flow rate in SLED and CRRT?
23. What are the steps in hand washing?
24. Composition of PD fluid.
25. What are the common organisms causing PD catheter exit site infection?
26. Write dietary advice for CAPD patients.
27. Three anticoagulants used in SLED/CRRT
28. Name three clinical features of PD peritonitis.
29. Name the types of PD transfer sets.
30. Renal Artery stenosis.

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ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023
II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN OPHTHALMIC TECHNOLOGY(DOT)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90
QP CODE: 3162, OPHTHALMOLOGY PAPER-2

GENERAL INSTRUCTIONS:

- i. Write neat diagram wherever necessary, handwriting should be legible.

I. LONG ESSAY - ANSWER ANY TWO 2 × 10 = 20

1. National program for control of blindness and visual impairment
2. Causes for corneal blindness, name different types of keratoplasty and add a note on eye banking
3. Describe screening for Refractive errors in School children under School health programme.

II. SHORT NOTES ANSWER ANY TEN 10 × 5 = 50

4. Causes of childhood blindness
5. Causes of visual impairment and blindness
6. Postoperative instructions of cataract surgery
7. Major and minor surgical records
8. Prisms in Ophthalmology.
9. Eye collection centres
10. Describe different modes of visual rehabilitation
11. Record maintenance in Cataract surgery
12. Different types of outreach camps
13. Blood pressure
14. How to give eye wash? Mention Two indications.
15. Difference between spherical and cylindrical lens.

III. SHORT ANSWERS 10 × 2 = 20

16. Vital signs
17. Different modes of corneal preservation
18. Bitot spots
19. Keratomalacia
20. Vitamin A prophylaxis program
21. Name 2 antibiotics used in Eye infections
22. District blindness control society (DBCS)
23. Snellens chart and its applications
24. Name Two drugs used in Glaucoma.
25. Diabetic retinopathy screening camp

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ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023III

YEAR DIPLOMA IN OPHTHALMIC TECHNOLOGY (DOT)

TIME: 3 Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE: 6163, OPHTHALMOLOGY PAPER-2

I. Short Notes, answer any EIGHT Questions

8x5=40

1. Eye Bank and its function.
2. Steps and procedures involved in Eye donation.
3. Describe Various Methods of ophthalmic drug application
4. Describe 5 Uses of topical steroid eye drops in ophthalmology
5. Classify Anti-Glaucoma drugs
6. Emergency resuscitation –CPR(Cardia pulmonary resuscitation)
7. Methods of identifying shallow anterior chamber depth
8. NPCB
9. Role of the ophthalmic technician in Eye camp
10. How is Lacrimal syringing done? mention its importance.

II. Short Answers

20x3=60

11. Dangers of indiscriminate use of steroid eye drops
12. Causes of Loss of Corneal window Reflex
13. Define blindness, and Types of blindness
14. Drugs used for Subconjunctival injection
15. DBCS (District blindness control society)
16. Uses of fluorescein in ophthalmology
17. Importance of School eye screening.
18. Role of protective eye gear at work place
19. Maintaining medico legal register
20. Importance of Fundus examination in patients with good vision
21. Consent Form for cataract surgery
22. Uses & side effect of miotics
23. Treatment of Lagophthalmos
24. Methods of storing donor cornea
25. Describe 3 Causes for Proptosis
26. Importance of treating anisometropia in school children
27. Describe 3 Causes for Sudden Painful Vision Loss
28. Describe 3 Conditions producing Acute Red Eye
29. Low vision Aids.
30. Describe 3 Causes for Shallow anterior Chamber

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III YEAR DIPLOMA IN DENTAL MECHANICS (DDM)
TIME: 1Hrs30Mins (RS -2 SCHEME) MAX. MARKS: 50**

QP CODE:6172

PARTIAL DENTURES, ORTHODONTIA, MAXILLOFACIAL- PROSTHESIS

I. WRITE SHORT NOTES - ANSWER ANY FOUR

4 X 5 = 20

- 1) Survey lines and surveying tools
- 2). Casting defects
- 3) Maxillary major connectors
- 4) Sprue Designing.
- 5) Parts of FPD with Diagram

II. WRITE SHORT ANSWERS

10 X 3 = 30

- 6) Class 1 & 2 Kennedy's classification
- 7) Adam's clasp
- 8) Occlusal rest
- 9) Refractory cast
- 10) Obturator.
- 11) Lingual Bar
- 12) Soldering.
- 13) Materials used in Maxillofacial prosthesis
- 14) Materials used in FPD
- 15) Color coding in RPD design

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III YEAR DIPLOMA IN DENTAL HYGIENE (DDH)

TIME: 3 Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE:6183

DIAGNOSIS AND TREATMENT OF PERIODONTAL DISEASE

I. SHORT NOTES: ANSWER ANY EIGHT QUESTIONS

8X5=40

1. Rules and regulations of dental hygiene.
2. Define and classify trauma from occlusion.
3. Ultrasonic scaler.
4. Indications and contra indications of ultrasonic scalers.
5. Mention different parafunctional habits.
6. Plaque control in dental implants.
7. Chemical plaque control agents
8. Instrument maintenance.
9. Phases of treatment plan.
10. OHIS index.

II. SHORT ANSWERS

20X3=60

11. Precautions to be taken in HIV patient.
12. Sutures.
13. Inter dental aids.
14. Symptoms of diabetes mellitus.
15. Objectives of dental hygiene.
16. Oral Irrigation Devices
17. Instruments used for Peri-implantitis.
18. Define dental hygiene.
19. Signs of syncope.
20. Drugs used in Asthma.
21. Periodontal findings in diabetes mellitus.
22. Special diet for patients with jaw fracture.
23. Enlist three emergency drugs.
24. Management of hypertensive patient.
25. Bruxism
26. Desensitizing pastes.
27. Precautions to be taken in HBV infection.
28. Precautions to be taken in pregnant women.
29. Oral irrigation devices.
30. Periodontal dressing.

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ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023

II YEAR DIPLOMA IN PHYSIOTHERAPY (DPT)

TIME: 3Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE:5193, THERAPAUTIC EXERCISE

SHORT NOTES – ANSWER ANY EIGHT

(8x5=40)

1. PNF.
2. Principles of Goniometry.
3. Passive exercises.
4. Bed transfer activities
5. Group Exercise.
6. Pathological gaits
7. Indications and goals of breathing exercises
8. Aims and techniques of Exercise therapy.
9. Walking Aids
10. Hydrotherapy and its uses.

SHORT ANSWERS

(20x3=60)

11. Free exercises
12. Parts of Goniometer
13. Parts of wheel chair
14. Frankel's exercises
15. Irradiation
16. Muscle responsible for running
17. Suspension therapy
18. Eccentric exercises
19. Properties of water
20. Resisted exercises
21. Postural defect
22. Ballistic movement
23. Muscles acting on hip movements
24. Merits of hydrotherapy
25. Reflexes
26. Anaerobic training
27. Massage
28. Advantages of group exercise
29. Different types of crutches
30. Active movements

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PARA MEDICAL BOARD, BENGALURU

ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023

FIRST YEAR ALL CERTIFICATE COURSES

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

MAX. MARKS: 45

QP CODE:1102, CHEMISTRY

I. LONG ESSAY – ANSWER ANY ONE 1 X 10 =10

- 1) Explain the preparation of Phenol from coal Tar, Mention Two Properties and two uses.
- 2) Explain the preparation of Nitric acid by Ostwald's process. Mention any two properties and uses of nitric acid.

II. WRITE SHORT NOTES ON ANY FIVE 5 X 5 =25

- 3) Types of Buffer solutions
- 4) Mention the names of any five amino acids with its structure.
- 5) Tyndal effect and Brownian movement
- 6) Half life period
- 7) Oxidizing and reducing agents
- 8) Difference between RNA and DNA.
- 9) Classify hydrocarbons with examples and use for each

III. WRITE SHORT ANSWERS 5 X 2 =10

- 10) Molality and Normality.
- 11) Uses of Chlorine.
- 12) Global warming.
- 13) Structure of Glycine and Alanine
- 14) Why methane is called marsh gas?

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PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023
FIRST YEAR ALL DIPLOMA COURSES

TIME: 3Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE:4103, CHEMISTRY

I. Short Notes – Answer any EIGHT questions

8 X 5=40

1. Explain preparation of Nitric acid by Ostwald's process
2. Define pollution. Mention the causes of Soil pollution
3. Mention the pH values of biological fluids
4. Describe the preparation of ethyl alcohol from molasses
5. Write the structure of A) Glycine B) Alanine C) Serine D) Aspartic acid E) Tyrosine
6. Atomic weight and Molecular weight
7. Define half life period. Mention the applications of cobalt-60 and iodine-131 isotopes
8. Define A) Oxidation and B) Reduction. Give one example for each

9. Match the following

A	B
a) Starch	i) Honey
b) Cellulose	ii) Milk
c) Glycogen	iii) Liver
d) Lactose	iv) Seeds
e) Fructose	v) Plant cell wall

10. Choose the correct answers

A) Drinking soda is i) Alkaline ii) Acidic iii) Neutral iv) Oxidant

B) UV radiation is striking the earth is due the depletion of

i) oxygen ii) ozone iii) CO iv) CO₂

C) The gas chiefly present in LPG (liquefied petroleum gas) is

i) Butane ii) Propane iii) Ethane iv) Methane

D) Silk fiber chemically is i) Fat ii) protein iii) carbohydrate iv) cellulose

E) PVC is obtained by the polymerization of

i) propane ii) butane iii) vinyl chloride iv) Acetylene

continued.....

II. Short Answers.

20 X 3 = 60

11. Name the SI Units for A) Length B) Mass C) Time.
12. Define matter and mention the states of matter
13. Define an atom. Name the sub-atomic particles of an atom.
14. Define (i) Acid (ii) Base (iii) Salt. Mention one example for each
15. Mention the causes of soil pollution
16. Define (i) Molarity (ii) Normality.
17. What is Aquaregia? Mention its uses
18. Amines and its classification.
19. Global warming
20. Define a buffer solution. Mention different types of buffer solutions.
21. Give the calculation for preparing 100ml of 0.1N NaOH
22. Mention three uses of salicylic acid
23. Mention three applications of colloids
24. Mention three uses of phenol
25. Milk sugar
26. Define a) Enzyme b) Co-enzyme and c) Apoenzyme
27. Calculate the percentage of Carbon and Oxygen in glucose($C_6H_{12}O_6$)
28. Mention different types of RNA and their functions
29. Calculate the molar mass of a) H_2O b) CO_2 and c) CH_4

30. Fill in the blanks

- i) $CuSO_4$ is the chemical formula of.....
- ii) $CaCO_3$ is the chemical formula of
- iii) $NaCl$ is the chemical formula of

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PARA MEDICAL BOARD, BENGALURU
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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. Mention different methods for Hemoglobin estimation. Describe the procedure for Sahli's Hemoglobin estimation.
2. What is the composition of Leishman stain? Write a note on preparation and staining of a peripheral smear. **(3+3+4)**
3. Describe the procedure and complications of phlebotomy. Mention the various anticoagulants with their uses. **(3+3+4)**

Short Essay : (Answer any ten)

10x5=50

4. Write a note on CSF examination.
5. Microscopy of urine sample.
6. Manual tissue processing.
7. Describe chemical tests for protein in urine.
8. Errors in section cutting and their correction.
9. Absolute eosinophilic count.
10. Describe the principle and procedure of Benedict's test.
11. Describe importance of differential leucocyte count.
12. Packed cell volume.
13. Grossing Technique in histopathology
14. Quality control in haematology.
15. Preparation of various buffers.

Short Answer :

10x2=20

16. Mention components of blood.
17. Mention two causes of increased Erythrocyte sedimentation rate (ESR).
18. Platelet count
19. Mention stains used in cytology.
20. Mention four uses of EDTA anticoagulant.
21. Mention two clearing agents used in histopathology.
22. Mention the instruments used in haematology.
23. Mention red cell indices.
24. Mention uses of improved Neubauer's chamber.
25. Mention preservatives used for urine samples

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

QP CODE: 5105, PATHOLOGY

I Short notes, answer any 8 questions

8X5=40

1. Write the chemical tests done on stool sample.
2. Semen analysis – definition, collection, physical, chemical and microscopic examination.
3. Describe the color coding for vacutainers and mention the anticoagulants used .
4. Describe principle, procedure and clinical importance of heat and acetic acid test.
5. What are the different types of fixatives used in histopathology and cytology.
6. Fixatives used in Histopathology.
7. Mention the stains used in haematology and write the procedure of one of the stain.
8. How do you demonstrate Barr bodies?
9. Surface decalcification and end point decalcification.
10. Quality control.

II Short answers

20x3=60

11. Write about preparation and staining of sputum smear.
12. Anticoagulants used in haematology.
13. How do you prepare RBC diluting fluid and mention the procedure.
14. Buffers used in Haematology Lab.
15. Ideal peripheral smear.
16. Draw and label different types of WBCs
17. Write morphology of normal and abnormal RBCs.
18. What are RBC indices.
19. Mention the uses of H and E, ZN and PAP stain.
20. Write the procedure of Absolute eosinophil counting.
21. Packed Cell Volume – Principle and procedure.
22. Preservation and transportation of CSF
23. Fields stain and its uses.
24. Automation in complete Blood count analysis.
25. Write the advantages and disadvantages of Sahli's method of Hb estimation.
26. Write a note on stool microscopy for ova and cyst.
27. Write a note on Grossing techniques in Histopathology
28. Mention the types of Haematoxylin used.
29. Three conditions causing Eosinophilia.
30. ABO Blood Grouping.

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

QP CODE: 2112, COMMUNITY MEDICINE PAPER-2

I. Answer Any TWO.

2x10=20

1. What are the functions of proteins? Write about causes of protein energy malnutrition. (5+5)
2. Causes and hazards of water pollution. How do you prevent them?(3+3+4)
3. What do you mean by refuse? What are the sources & hazards. Describe methods of disposal of refuse. (2+3+5)

II. Short Notes on any TEN.

10x5=50.

4. Measures of central tendency.
5. Types of ventilation.
6. Overcrowding.
7. Mosquito control measures.
8. Incineration.
9. Essential fatty acids.
10. Iron deficiency anaemia
11. Spectrum of Iodine deficiency disorder.
12. Pasturization of milk.
13. Food adulteration.
14. Conservation of water.
15. Sanitation barrier.

III. Write Short Answers.

2x10=20.

16. Aflatoxins.
17. Diseases transmitted by mosquitoes.
18. Super Chlorination.
19. Bitot spots.
20. DDT.
21. Oxidation pond.
22. LBW.
23. Pellagra.
24. Two Health hazards of Radiation.
25. Disadvantages of Nuclear Family.

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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. Briefly explain the different methods for disposal of solid waste
2. Types of ventilation. Explain in detail about natural ventilation
3. Global warming
4. Chlorination of water
5. Indicators of Good housing
6. Rapid sand filter
7. Effects of Air pollution
8. Life cycle of malarial parasite.
9. Diseases transmitted by mosquitoes. Discuss regarding its control measures
10. Criteria for sanitary well

SHORT ANSWERS

(20x3= 60)

11. What is set back?
12. Diseases caused by itch mite
13. Iron deficiency anaemia
14. Three louse borne diseases
15. Three methods of water purification at house hold level
16. Effects of noise exposure
17. Three diseases caused by house fly
18. Effects of heat
19. Difference between Anopheline and Culicine mosquitoes
20. Advantages of water seal latrines
21. Anti-larval measures
22. Three sources of Water pollution
23. Sources of refuse
24. Three water borne diseases
25. Sewage Farming.
26. Safe and wholesome water
27. Effects of radiation
28. Give three examples of diseases transmitted by rat
29. Pellagra
30. Sanitation barriers

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IIYEAR DIPLOMA IN MEDICAL IMAGING TECHNOLOGY (DMIT)
TIME: 1Hr 30 Min (RS -2 SCHEME) MAX. MARKS: 50**

QP CODE: 5124, PHYSIOLOGY

I. SHORT NOTES (ANSWER ANY FOUR)

4 x 5 = 20

- 1) Classify Body fluids. Measurement of ECF
- 2) Transport of Oxygen.
- 3) Phases of Cardiac cycle.
- 4) Structure & Function of Neuron.
- 5) Functions of Thyroid Hormone.

II. SHORT ANSWERS

10 x 3=30

- 6) Define G.F.R. Give its normal value.
- 7) P.C.V.
- 8) Properties of Skeletal Muscle.
- 9) Reflex Arc.
- 10) Pulmonary Surfactant.
- 11) Functions of Insulin.
- 12) Heart Sounds.
- 13) Alveolar Ventilation.
- 14) Bleeding Time.
- 15) Functions of Skin.

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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

I. Long Essay (Any 1) 1 x 10 = 10

1. Name the parts of Male Reproductive System. Describe Testes in brief. (5+5)
2. Name of the parts of the Digestive System with a labelled Diagram.
Describe Stomach in brief. (5 + 5)

II. Short Notes (Any 5) 5 x 5 = 25

3. Supra Renal Gland
4. Left Lung
5. Vermiform Appendix
6. Pancreas.
7. Cerebrum
8. Kidney
9. Uterus.

III. Short Answers 5 x 2 = 10

10. Name the parts of Gall Bladder
11. Name two Carpal Bones
12. Name two Muscles where Intra Muscular Injection is given
13. Name four Cranial Nerves
14. Name two Veins of Lower Limb

QP CODE: 2136, SECTION B: PHYSIOLOGY

IV. Long essay-answer any one 1x10=10

- 15) Name the types of white blood cells and describe their functions.
- 16) Name the hormones of anterior pituitary gland and Describe the actions of Thyroid hormone.

V. Write short notes on any five. 5x5=25

- 17) Composition and functions of bile juice.
- 18) Explain the chemical regulation of respiration.
- 19) Draw a neat labelled diagram of Neuron.
- 20) Define the different body fluid compartments.
- 21) Explain the active Transport and passive transport processes.
- 22) Conducting systems of Heart.
- 23) Properties of cardiac muscle.

VI. Short answers 5x2=10

- 24) Define hypoxia.
- 25) write normal value of Pulse and Blood Pressure.
- 26) What is Hypermetropia and how can it be corrected?
- 27) Name any two hormones secreted from thyroid gland.
- 28) Write the normal values of
 - 1) Vital capacity
 - 2) Total lung capacity

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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. Describe uterus
2. Describe different types of epithelium with example.
3. Describe brachial plexus
4. Describe Kidney
5. Describe typical intercostal space

SHORT NOTES

10 X3 = 30

6. Major Salivary glands.
7. What is lumbar puncture? Mention at which level of vertebra it is done?
8. Name different coverings of brain
9. Types of bones.
10. Define lithotomy position
11. Name any 6 cranial nerves
12. Name different parts of larynx
13. Draw neat labelled diagram showing different quadrants of abdomen
14. Name different anatomical planes
15. Name different parts of Small intestine

QP CODE: 5137, SECTION B: PHYSIOLOGY

SHORT NOTES (ANSWER ANY FOUR)

4 x 5 = 20

16. Structure & Functions of Haemoglobin.
17. E.C.G
18. Neuromuscular Junction
19. Defecation Reflex.
20. Functions of Gastric Juice.

SHORT ANSWERS

10 x 3=30

21. Define GFR, normal value
22. Name mechanisms of Clotting.
23. Functions of C.S.F.
24. Cyanosis.
25. Structure of Nephron.
26. Functions of Thyroid Hormone.
27. Give Normal Values of Pulse and Respiratory Rate.
28. Neuron.
29. Landsteiner's Law.
30. Barrier methods of Contraception

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I YEAR 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 classification of data and explain different types of classification
2. Define vital statistics. Explain infant mortality rate and Maternal Mortality rate
3. Explain Mean, Median and Mode with its merits and demerits
4. Define table. Draw general format of table and explain the various parts of table.

SHORT NOTES -ANSWER ANY TEN

10x5=50

5. Variable and its types with example
6. Population and Sample With example
7. Define sampling. Mention types of sampling
8. Uses of Biostatistics
9. Admission and Discharge
10. Bed Occupancy rate with example
11. Range and Quartile deviation
12. Statistics and Biostatistics
13. Bar Diagram
14. Mean Deviation and Standard deviation
15. Census

SHORT ANSWERS- ANSWER ANY FIVE

5x2=10

16. Crude death rate
17. Systematic random sampling
18. Purposive sampling
19. Data and its types
20. Crude Birth rate
21. Pie Chart

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II YEAR DIPLOMA IN MEDICAL RECORDS TECHNOLOGY(DMRT)

TIME: 3Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE: 5146, HOSPITAL STATISTICS & BIOSTATISTICS

SHORT NOTES: ANSWER ANY EIGHT

8x5=40

- 1 Define Biostatistics and sources of data.
- 2 Explain Diagrammatic presentation of Hospital data.
- 3 Define Sampling and mention Sampling methods.
- 4 Define Hospital Autopsy Rate
- 5 Define Rate, Ratio and Proportion.
- 6 Define Vital statistics and its uses.
- 7 Measures of Central Tendency and its application.
- 8 Types of Graphical presentation.
- 9 Measures of Dispersion and its application.
- 10 Correlation and Regression.

SHORT ANSWERS

20 x3=60

- 11 Surgical Death Rate.
- 12 Normal Curve.
- 13 Arithmetic Mean.
- 14 Gross hospital Death Rate
- 15 Mode.
- 16 Crude Death Rate.
- 17 Standard Deviation.
- 18 Daily Inpatient Bed Occupancy Percentage.
- 19 Range and its advantages.
- 20 Median,
- 21 Net Hospital Death Rate
- 22 Length of Stay
- 23 Infant mortality rate.
- 24 Simple Random Sampling method.
- 25 Inpatient service day.
- 26 Systematic Random sampling.
- 27 Mean Deviation.
- 28 Stratified Random Sampling method.
- 29 Bed turn over interval
- 30 Histogram.

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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

I. Long Essay (Any 1)

1 x 10 = 10

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

II. Short Notes (Any 5)

5 x 5 = 25

3. Peritoneum
4. Uterus.
5. Tongue
6. Pancreas
7. Histology of Skin
8. Abdominal Aorta

III. Short Answers

5 x 2 = 10

9. Name the chambers of Heart.
10. Name any two Muscles of Upper Limb.
11. Name the Ventricles of Brain
12. Name two Veins of Lower Limb
13. Name the cartilages of Larynx.

QP CODE: 2156, SECTION B: PHYSIOLOGY

LONG ESSAY- ANSWER ANY ONE

1 x 10 =10

14. What are Heart sounds? Describe different types of heart sounds heard. (2+8)
15. Describe the process of Urine formation.

Short essays, Answer any FIVE.

5X5=25

16. List the uses of blood grouping tests
17. Role of respiratory system in Acid Base balance
18. Packed cell volume (PCV)
19. Calcium metabolism
20. Role of ADH (Anti diuretic hormone) in water balance
21. Anticoagulants.
22. Explain the stages of Erythropoiesis.

Short answers

5x2=10

23. Give the normal values of a)serum calcium b) serum creatinine
24. Draw a neat labeled diagram of ECG waves
25. Name two organ systems involved in Acid Base balance
26. Two functions of Hemoglobin
27. Give the normal values of a)ESR b) Hemoglobin

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ANNUAL EXAMINATION, OCTOBER / NOVEMBER -2023
II YEAR DIPLOMA IN DIALYSIS TECHNOLOGY (DDT)**

TIME: 3 Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE: 5155 SECTION A: ANATOMY

I SHORT ANSWERS- ANSWER ANY FOUR

4 X 5 = 20

1. Describe different terms used in relation to muscle
2. Write briefly the anatomy of Kidney
3. Write briefly about the blood supply of heart
4. Write briefly about the major arteries of Upper limb
5. Name the Lymphatic organs. Describe Lymph node.

II SHORT NOTES

10 X3 = 30

6. Name the hormones secreted by Pancreas.
7. Write briefly about anatomical position
8. Write briefly about Thyroid gland
9. Mention different parts of larynx
10. Draw labelled diagram of Neuron.
11. Write briefly about stomach.
12. Name all carpal bones
13. Mention different parts of brain
14. Name the connective tissue cells.
15. Write briefly about periosteum of bone

QP CODE: 5156

SECTION B: PHYSIOLOGY

III. SHORT NOTES (ANSWER ANY FOUR)

4 x 5 = 20

16. Functions of Liver.
17. List the hormones of Anterior Pituitary & Name the Functions of Thyroid hormone.
18. Conducting System of Heart.
19. Composition and functions of plasma proteins.
20. Describe the factors maintaining Blood Pressure.

IV. SHORT ANSWERS

10 x 3=30

21. Cross Matching.
22. Draw a neat labeled diagram of Mitochondria.
23. Write the Normal Values of Respiratory rate and Pulse rate.
24. Types of Anaemia.
25. Normal values of a). RBC b). Platelets c). ESR
26. Name three anticoagulants
27. Name three functions of Kidney.
28. Barrier Contraceptive methods.
29. Name the errors of refraction.
30. List three contraindications of Blood Transfusion.

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ANNUAL EXAMINATION, OCTOBER / NOVEMBER -2023
II YEAR DIPLOMA IN DENTAL HYGIENE (DDH)
TIME: 1 HR 30MIN (RS -2 SCHEME) MAX. MARKS: 50

QP CODE: 5185, SECTION-A, BIOCHEMISTRY

I. Short notes. 2×5=10

1. Definition, Classification and reference values of Plasma proteins.
2. Write in brief about nutrition in relation to general health.

II. Short answers. 5×3=15

3. Essential amino acids.
4. Write the factors affecting enzyme activity.
5. Functions of Vitamin C.
6. Name Two Isoenzymes.
7. Write the purines and pyrimidines present in DNA and RNA.

QP CODE:5186, SECTION –B RADIOLOGY

III LONG ESSAY 2X5=10

8. Write about types of Dental radiographs.
9. Write in detail bisecting angle technique

IV WRITE SHORT NOTES 5X3=15

10. Paralleling technique
11. Orthopantomogram
12. Structure of an atom
13. Bite wing radiograph.
- 14.. Radiation protection.

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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. Explain in detail closed kinematics and open kinematic chain.
2. Write a note on Hand Fuction.
3. Describe biomechanics of Knee joint
4. Explain with diagram Stress strain curve during tendon rupture
5. Define levers. Explain its types and its mechanical advantages.
6. Describe biomechanics of Hip joint
7. State the laws of Newton's and explain
8. Describe biomechanics of vertebral column
9. Describe biomechanics of temperomandibular joint
10. Ramp and fast movement.

SHORT NOTES

(20x3= 60)

11. Stress and strain.
12. Types of equilibrium.
13. Properties of spring and use in physiotherapy.
14. Goniometer.
15. Momentum.
16. Action and reaction.
17. Functional position of the wrist.
18. Work and power.
19. Friction.
20. Apply Newton's first and second law in elbow flexion.
21. Trendelenburg gait.
22. Anatomical pulley.
23. Structure of vertebra.
24. Arches of foot.
25. Define Energy, work and power.
26. Axis and planes.
27. Hook's law.
28. Elasticity.
29. Range of movement.
30. Apply Newton's first and second law in knee flexion.

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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. Define epilepsy, classification and management.
2. What is parkinsonian gait. How will you do gait training for 60 years old parkinsonism patient.
3. Dandy walker syndrome? Its management
4. Describe the clinical features of Cerebral palsy.
5. Cause, clinical features and management of head injury.
6. What is tremors? Management of tremors
7. Management and complication of Spinal cord injury.
8. Explain about Radial nerve palsy, clinical features and management.
9. What are the cranial nerves, explain about facial nerve.
10. Define stroke? Etiology, type and management of stroke

SHORT ANSWERS

(20x3=60)

11. Brachial Plexus palsy
12. Babinski Sign
13. Carpal tunnel syndrome
14. Clipping of aneurysm
15. Progressive bulbar palsy
16. Spine bifida
17. Bell's phenomenon
18. Laminectomy
19. Axillary nerve palsy.
20. Lumbo sacral plexus lesion
21. Guillain Barre Syndrome
22. Myasthenia Gravis
23. Friedreich's ataxia
24. Post-polio syndrome.
25. Autism
26. Fenkel's exercise.
27. Hydrocephalus and its management
28. Meningitis.
29. Syringomyelia
30. Bladder and bowel dysfunction.

KARNATAKA NURSING & PARA MEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY
PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023
II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY (DMLT)
TIME: 3 Hrs (RS -1 SCHEME) MAX. MARKS: 90
QP CODE: 3103, MICROBIOLOGY

I. Long assay- (answer any two)

2X10=20

1. Name organisms causing urinary tract infections. Add a note on laboratory diagnosis (4+ 6)
2. Classify Hypersensitivity reactions and explain Type I reactions. (4+ 6)
3. Write about the morphology and laboratory diagnosis of Mycobacterium tuberculosis (3+7)

II. Write short notes (any ten)

10X5=50

4. Nosocomial infections
5. Candidiasis
6. Hepatitis B
7. Universal precautions
8. Antibiotic susceptibility testing
9. Laboratory diagnosis of Malaria
10. Latex agglutination tests
11. Laboratory diagnosis of enteric fever
12. Anti- streptolysin – O (ASLO) test
13. Biomedical Waste management
14. Life cycle Entamoeba histolytica
15. HIV

III. Write short answers

10X2=20

16. Fungi producing infections
17. Use of KOH preparation
18. Name four faeco-oral route transmitted diseases.
19. Name two diagnostic skin tests used in microbiology
20. Preparation and fixation of smear from a colony
21. Name two acid fast bacilli and diseases caused by them
22. Mention two anaerobic organisms infections
23. Name two zoonotic diseases
24. Enlist two vaccine preventable disease
25. Name types of malarial parasites

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

QP CODE:6105, MICROBIOLOGY

I. Short notes, answer any EIGHT questions.

8x5=40

1. Write about universal precautions in laboratory.
2. Pathogenesis of Diphtheria.
3. Life cycle of Entamoeba histolytica.
4. Laboratory diagnosis of Enteric fever.
5. Preservation methods of bacterial stock cultures.
6. Biomedical waste management methods.
7. HIV.
8. Write about preparation of antibiotic sensitivity discs.
9. Laboratory Diagnosis of pulmonary tuberculosis.
10. Transportation of various samples for microbiological investigations.

II. Short answers

20x3=60

11. Preservation of urine sample.
12. RPR test.
13. Pathogenesis of Echinococcus granulosus.
14. Laboratory diagnosis of Candida
15. Brucella agglutination test.
16. Name three infections caused by Escherichia coli.
17. Vaccines for typhoid fever.
18. BCG vaccine.
19. RNTCP.
20. Weil Felix test.
21. Importance of hand hygiene in infection control.
22. Giardia lamblia
23. Cryptococcus.
24. Infections caused by aspergillus.
25. Mantoux test.
26. Sample rejection criteria for blood samples.
27. Uses of VDRL test.
28. RA test.
29. Eggs of ascaris.
30. NIH swab.

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PARA MEDICAL BOARD, BENGALURU

ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 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 Enumerate Occupational diseases. Write briefly about Silicosis.
- 2 Define Primary Health care. Write principle and functions of primary Health Care.
- 3 Objectives and Services of School health programmes in India

SHORT NOTES -ANSWER ANY TEN

10x5=50

- 4 Prevention of Diarrhoeal diseases
- 5 Modes of disease transmission with examples
- 6 First Aid for Dog bite
- 7 Diet advice to Pregnant Woman
- 8 Bhole committee
- 9 Maternal death
- 10 Community participation
- 11 Role of ASHA with regard to mother and child health
- 12 Role of Panchayat in PHC
- 13 Essential Drugs
- 14 ICDS programme
- 15 Benefits to workers under ESI act

SHORT ANSWERS

10x2=20

- 16 Temperature to be maintained in ILR and Deep Freezer at Immunization room
- 17 Name One national programme for
a. TB b. HIV c. Blindness d. Mother and child health
- 18 Hand washing steps
- 19 List any Four Notifiable diseases
- 20 Functions of UNICEF
- 21 World Health Day
- 22 Name any two Disaster
- 23 List any Four Vital statistics
- 24 Community resources for health education
- 25 List 2 Heat sensitive and 2 freeze sensitive vaccines

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ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023
III YEAR DIPLOMA IN HEALTH INSPECTOR (DHI)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 6115, COMMUNITY MEDICINE-PART III

SHORT NOTES: ANSWER ANY EIGHT

8x5=40

1. Functions of World Health Organization
2. Elements of primary health care
3. What are Pneumoconiosis? Write briefly on silicosis
4. Benefits under ESI Act to Workers and Employees
5. Role of ASHA
6. Hazards of Industrialization
7. Manmade disaster
8. Planning Cycle
9. Concept of triage in Disaster management
10. Medical measures to prevent and control occupational diseases

SHORT ANSWERS

20 x3=60

11. Hospital waste management
12. Respirable Dust
13. International Labour Organization.
14. Prevention accidents in Agriculture industry
15. Disaster mitigation
16. Role of NGO's in health care
17. Occupational dermatitis
18. Hazards of Health Care Waste
19. Heat stress
20. Byssinosis
21. Expand GOBIFFF
22. List four International Health Agencies
23. Frost bite
24. Universal precautions
25. Three levels of Health care in India
26. CHC
27. DANIDA
28. Name any three engineering measures to prevent occupational diseases
29. Sickness absenteeism
30. Functions of Health worker male

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II YEAR 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

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

1. Write in Principles Computed Tomography and Different Generations of CT?
2. Discuss the procedure, technique and views Mammography.
3. Explain Fluoroscopy and Image intensifiers.

II. WRITE SHORT NOTES ANY TEN **5x10=50**

4. Magnification radiology
5. Note on Digital radiography
6. Ultrasound Artifacts
7. PET-CT
8. Display modes in USG
9. Filters
10. CECT-KUB
11. Ionization chamber
12. Types of Magnetism
13. Productions of radionuclides
14. Gamma camera
15. Explain the sharpness and un-sharpness

III. WRITE SHORT ANSWERS **10x2=20**

16. Partial volume effect
17. Clinical history
18. View box
19. Doppler
20. Voxel and Pixel
21. ALARA
22. Streak artifact
23. Precession
24. Soft tissue radiology
25. Larmor equation

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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. How to do copying and magnification of a radiograph
2. Working principle, technique & merits of Digital radiography
3. Sinogram
4. What are conventional Radiographic cassettes? Draw a neat diagram and label its parts?
5. Uses of Leadglass
6. Advantage and disadvantage of intensifying screen
7. Points to be considered while planning a Computer Radiography Room.
8. Advantage and disadvantage of automatic film processor
9. Draw the typical film characteristic. Also label and define the following terms
(a) Gamma (b) contrast (c) speed (d) latitude
10. Formation of Latent image

SHORT ANSWERS

20X3=60

11. Thermostat
12. Fluorescence
13. Loading & unloading of X-Ray cassette
14. X-Ray film base properties
15. Write short note on labelling & presentation of a radiograph
16. How to mount intensifying screen in cassettes
17. X-Ray film artefacts
18. Storage of film materials and radiograph
19. Temperature control in dark room
20. Water supply for automatic film processor
21. Beam restrictor devices
22. Mention three rare earth element
23. Describe super coating of X-Ray films
24. Deterioration of films on storage
25. Intensification factors
26. Write about FFD
27. Describe darkroom entrance
28. Safe Light
29. View Box
30. X-Ray film colour sensitivity

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ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 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. Input devices and Output devices
2. System software and Application software
3. Limitations of computers
4. Role of Computers in Medical Record department
5. Computer virus and its indications

SHORT ANSWERS

10x3=30

6. Random access memory
7. Types of printers
8. Internet and its uses
9. Hardware
10. Expand a) WWW b) BIOS c) HDD
11. Laptop
12. Short cut keys for a) Align left b) Find c) New document
13. Pen drive
14. Recycle bin
15. Bar code reader

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ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023
II YEAR DIPLOMA IN 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. Dental Ethics.
2. Supportive Periodontal Therapy.
3. Methods of Oral Prophylaxis.
4. Write in Brief Oral Cancer.
5. Disclosing Agents.
6. Oral Manifestations of HIV
7. Aims and Objectives of Dental Health Education.
8. Child & parent Counselling.
9. Water Supply to Community and Their Implications on Dental Health.
10. Different Sterilization Techniques

II. SHORT ANSWER 20x3=60

11. Dental Stone.
12. Tongue Thrust Appliance.
13. . Name Dental Specialities.
14. Charts and Posters.
15. Cavity Varnish.
16. Book Keeping.
17. Types of Water Fluoridation.
18. Die Stone.
19. Silver Amalgam.
20. Patient Appointment
21. Defluoridation of Water.
22. Plaster of Paris.
23. Use of Plaster Models.
24. Zinc Oxide Eugenol Cement Mixing.
25. Plaster Mixing.
26. Accounts.
27. Alginate
28. Chair side assistance.
29. Define Epidemiology
30. Computers in Dentistry.

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ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 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. Physiological & Therapeutic effects of Direct current.
2. Pain gate control theory.
3. Circuit diagram of SWD.
4. Production of IRR.
5. Describe the physiological effects and uses of MWD.
6. Principle and types of LASER. Mention its therapeutic uses.
7. Kromayer lamp
8. Methods of application of Wax
9. What is bio feedback.
10. Therapeutic effects & indications of Faradic current.

SHORT ANSWERS

(20x3=60)

11. Motor unit
12. EMG
13. Latent Heat of fusion
14. Dangers of LASER
15. Cryotherapy
16. Contraindications of TENS
17. Hydrotherapy
18. Step-down transformers
19. Dangers of IRR
20. Dynamic current
21. Micro Current
22. Safety precautions of LASER
23. Define pain
24. Types of UVR
25. Therapeutic effects of SWD
26. Coupling media
27. Different frequencies in US
28. Electrode placement in IFT
29. Electrode placement in TENS
30. Dangers of MWD

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ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023
FIRST YEAR ALL DIPLOMA COURSES

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

Short Notes :Answer Any Eight

8X5=40

1. Draw a neat & labelled diagram of section of human heart
2. Explain the structure of Neuron with a labelled diagram.
3. Meiosis
4. Explain fluid mosaic model of plasma membrane with diagram.
5. Eukaryotic animal cell structure.
6. Define process of fertilization.
7. Describe anterior pituitary hormones with function.
8. Type of bacteria based on shapes

9. Match the following

i)	Mitochondria	a) Brain
ii)	Sebaceous gland	b) ATP
iii)	Pericardium	c) Skin
iv)	Plasma membrane	d) Heart
v)	Durameter	e) Lipid bilayer

10. Fill in the blanks.

- i) Suicide bag of the cell is termed by _____
 i) Lysosome ii) Mitochondria iii) Ribosome iv) Nucleus
- ii) Example for granulocyte is _____
 i) Neutrophil ii) Basophil iii) Eosinophil iv) All of the above
- iii) Salivary amylase hydrolyses _____
 i) Proteins in to Amino acids. ii) Fats in to fatty acids & glycerol
 iii) Starch into sugars iv) Nucleotides in bases
- iv) Blood group which has no antigens _____
 i) A ii) O iii) AB iv) B
- v) Ductless glands are called _____
 i) Exocrine ii) Endocrine iii) Pituitary glands iv) Adrenal gland

Short Answer

20 x3 =60

11. Blood Vessels
12. Functions of placenta.
13. Difference between bone and cartilage.
14. Rh typing.
15. Define Autosome and Allosome with its function.
16. Thyroid gland.
17. Draw a neat labelled diagram of female reproductive system
18. Tidal Volumes.
19. Draw a neat and labelled Structure of Chromosome.
20. What is Gene therapy? Mention the types.
21. Mention three function of liver.
22. Structure of nucleus & its function.
23. Define cell cycle, cell division & cytokinesis.

24. Functions of Kidney
25. Write the difference between prokaryotic cells and Eukaryotic cell.
26. Gastric juice.
27. Mention the Female and male sex hormones.
28. Function of DNA.

29. Fill in the Blanks.

- i) The fluid surrounding the brain is called _____
- ii) Master gland of the body _____
- iii) Total number of bones present in human body _____

30. Answer in one word / Sentence.

- i) Small Intestine
- ii) Lysozyme
- iii) Name the pigment present in RBC

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ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 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

I Long assay- (answer any two)

10X2=20

1. Define and classify Immunity. Add a note on Innate immunity. **(2+ 3+ 5)**
2. Classify culture media. Add a note on preparation of chocolate agar. **(5+ 5)**
3. How are staining techniques classified? Add a note on Gram stain and applications of Gram staining **(4+3+3)**

10X5=50

II Write short notes (any ten)

4. Use and maintenance of light microscope
5. Steps of hand wash
6. Louis Pasteur
7. Explain Gram Negative cell wall of bacteria.
8. Moist heat method of sterilization
9. Bacterial flagella.
10. Chemical disinfectants
11. Sources of infection
12. Bacterial growth curve
13. Ionizing radiation.
14. Biochemical tests useful in identification of organisms
15. Structure of IgG.

III. Write short answers

10X2=20

16. Name two motile organisms
17. Name two methods of transmission of infection
18. Various dilutions of sulfuric acid used in acid fast stain
19. Name two transport media
20. Name two RNA viruses.
21. Name two gram positive cocci
22. Name two viral vaccines
23. Name the important step in gram stain
24. Name two enrichment broth.
25. Uses of hot air oven

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IIYEARDIPLOMA IN MEDICALLABORATORYTECHNOLOGY(DMLT)

TIME: 3 Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE: 5107, MICROBIOLOGY

I. Short notes, answer any EIGHT questions.

8 X 5 = 40

1. Write the principle, uses and sterilization control of Hot air oven
2. Draw a neat labelled diagram of compound microscope
3. Ziehl Nelsen staining
4. Active immunity
5. Delayed hypersensitivity.
6. Fluorescent microscope
7. Difference between Prokaryotic and Eukaryotic.
8. Properties of Antigen.
9. Contributions of Robert Koch
10. Indole Test.

II. Short answers

20 X 3 = 60

11. Draw a neat labelled diagram of IgG.
12. Name three agglutination tests.
13. Name three materials sterilized in autoclave
14. Name three Gram negative bacilli.
15. Cold sterilization
16. Name three spore bearing bacteria
17. Mention different types of microscopes.
18. Name three inoculation methods of culture
19. Name three routes of transmission of HIV
20. Name three chemical disinfectants
21. Name two differential Stains
22. Standard precautions to prevent hospital acquired infection
23. Hand hygiene.
24. Functions of bacterial capsule.
25. Name three motile bacteria
26. Name three anaerobic culture methods
27. Ingredients of Nutrient agar
28. Biomedical waste segregation
29. COVID-19 Virus
30. Name three Live vaccines

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I YEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR (DHI)

TIME: 3 Hrs

(RS -1 SCHEME)

MAX. MARKS: 90

QP CODE: 2113, COMMUNITY MEDICINE-3

I. LONG ESSAY – ANSWER ANY TWO

2X10=20

1. Write mode of spread of Scabies, prevention and control of Scabies (3+7)
2. Enumerate different types of transmission of disease. Write about droplet infection with examples (3+7)
3. Write lifecycle of mosquito with neat diagram and mention diseases transmitted by mosquitoes.

II. Write Short Notes on any TEN

10X5=50

4. Uses of Epidemiology
5. Define Surveillance. Mention four diseases under Surveillance.
6. Vitamin A prophylaxis.
7. Herd immunity.
8. Control of Housefly.
9. Define Epidemic. Write different types of epidemic. (2+3)
10. Define Incidence. Write uses of incidence. (2+3)
11. BCG Vaccine
12. Cold chain.
13. Pentavalent vaccine - Storage, Schedule, Route of administration, Dose.
14. Adverse effects of Vaccination.
15. Bar diagram.

III. Write Short Answers.

10X2=20

16. Define Epidemiology.
17. Incubation Period.
18. Disease Eradication
19. Opportunistic Infections.
20. Define Mean and Mode. (1+1)
21. Mention four diseases transmitted by housefly.
22. Biological control of mosquitos
23. Mention two diseases transmitted by Tick.
24. Define Prevalence.
25. Mention Two Zoonotic diseases.

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II YEAR 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. Levels of Prevention and their Modes of Interventions with an example each.
2. Carriers-Classify and give suitable examples.
3. What is Meat Hygiene? Discuss Slaughter House Sanitation.
4. Universal Immunization Program
5. Discuss the Sources and Deficiencies of Fat Soluble Vitamins.
6. Incidence Rate and Prevalence Rate with an example each.
7. Concepts of Disease Causation.
8. Classify foods with suitable examples.
9. Define Pasteurization. Discuss different methods of Pasteurization.
10. Enlist Community Nutrition Programmes and write in brief about Vitamin A prophylaxis.

SHORT ANSWERS

20X3=60

11. Contagious-Define and give an example.
12. Reservoir-Define and give an example.
13. BCG-Type and Route of Administration.
14. Types of Disinfecting Agents-with an example each.
15. Live Vaccine-any three.
16. Deep Freezer.
17. Zoonosis-define and give an example.
18. Adverse Events Following Immunization-any three.
19. Types of Epidemiological Studies.
20. What are Macronutrients with an example.
21. Uses of Health Information System.
22. Balanced Diet.
23. Name any Three Notifiable Diseases.
24. Hospital Records.
25. Uses of Screening-any three.
26. Ragi.
27. Parboiling.
28. Census.
29. Food Contaminants-Define and give an example.
30. Uses of Vital Statistics – Any Three.

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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. Mention the cardinal signs of inflammation. Briefly describe vascular events in acute inflammation. (3 +7)
2. Define and classify pneumonia. Discuss the etio-pathogenesis of lobar pneumonia. (3+7)

SHORT NOTES -ANSWER ANY FIVE

5x5=25

3. Peptic Ulcer.
4. Hydronephrosis.
5. Pyogenic Osteomyelitis.
6. Myocardial infarction.
7. Achalasia cardia.
8. Define necrosis. Discuss different types of necrosis with examples.
9. Gall stones .

SHORT ANSWERS

5x2=10

10. Mention two differences between benign and malignant tumor.
11. Two causes of epistaxis.
12. Hypertrophy
13. Two causes of Fatty Liver.
14. Two causes of Goitre.

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IIYEAR DIPLOMA IN MEDICAL IMAGING TECHNOLOGY(DMIT)**

TIME: 1Hrs 30 Mins

(RS -2 SCHEME)

MAX. MARKS: 50

QP CODE: 5125, PATHOLOGY

ANSWER ANY FOUR QUESTIONS

4 X 5 = 20

1. Define neoplasia, mention its types with examples.
2. What are the causes of thyroid enlargement? Mention in detail about thyrotoxicosis.
3. Write in detail about diseases of paranasal sinuses, add a note on nasal polyps.
4. Write in detail about osteomyelitis, draw the diagram and label the parts.
5. Classify the diseases of lung. Add a note on bronchogenic carcinoma.

SHORT ANSWES

10 X 3 = 30

6. Risk factors for Kidney Stones.
7. Bitot Spots.
8. Classify pneumonia with the help of diagrams.
9. Mention Four Causes of Epistaxis.
10. Kwashiorkor.
11. Fibroid uterus
12. Rheumatoid arthritis
13. Aneurysms of aorta
14. Obesity
15. Carcinoma Cervix.

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1YEAR DIPLOMAIN PHYSIOTHERAPY (DPT)**

TIME: 3Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE:4197

SECTION A: PYSCHOLOGY

SHORT NOTES – ANSWER ANY FOUR

4x5=20

1. Define personality. Mention the characteristics. What is its classification?
2. Discuss the principles of various neuro psychological tests.
3. What are motives? How motives are classified?
4. States the process of memory. List the causes of forgetting.
5. What is thinking? Explain its types with example.

SHORT ANSWERS

10x3= 30

6. Behavior modification.
7. Mention the types of learning.
8. Growth and development.
9. Hallucination.
10. Study habits.
11. Introverts and extroverts.
12. Characteristics of Good Leader.
13. Memory process.
14. Causes of mental retardation.
15. Write about stress management.

QP CODE:4198

SECTION B: SOCIOLOGY

SHORT NOTES – ANSWER ANY FOUR

4x5=20

16. Define sociology? Describe the social factors related to health and diseases?
17. Define culture. Illustrate it with examples.
18. What are social change and its necessity?
19. Describe the causes of population explosion.
20. Difference between health problems of urban and rural community.

SHORT ANSWERS

10x3= 30

21. Juvenile delinquency.
22. Alcoholism
23. Poverty and unemployment
24. Geriatric problems.
25. Drug abuse.
26. Medical social worker.
27. Community.
28. Women Empowerment.
29. General features of social institution.
30. Importance of family in the present day condition.

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PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023
III YEAR DIPLOMA IN PHYSIOTHERAPY (DPT)

TIME: 3Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE:6197

COMMUNITY BASED REHABILITATION

SHORT NOTES – ANSWER ANY EIGHT

(8x5=40)

- 1.Scope of CBR in Urban & Rural population.
- 2.Explain the funding of CBR.
- 3.Explain role of physiotherapy for loco motor diseases in CBR.
4. Define vocational training and its needs.
5. Role of social workers in CBR.
- 6.Explain about District Rehabilitation Programme.
- 7.Explain multilateral and Bilateral agencies in CBR.
- 8.Advantage and disadvantage of mobile rehabilitation units.
9. Define High Risk Screening. Write in detail about early detection of Disability.
10. Role of physiotherapy rehabilitation of a child with Down syndrome.

SHORT ANSWERS

(20x3=60)

11. Define Survey.
- 12.Three functions of Anganawadi workers.
- 13.Role of physiotherapist in stress management in industrial sector.
- 14.Comprehensive rehabilitation.
- 15.Impairment, Disability and Handicap.
- 16.Resource Mobilisation.
17. Camp Approach
18. Function of Red Cross in CBR.
19. Define international health organizations, Name three IHO.
- 20.Vocational training of a Disabled.
21. UNICEF.
22. Importance of disability Survey
- 23.Immunization programmes.
- 24.Four funding possibilities for sustaining a CBR project
- 25.Name three screening test in high risk babies
26. Sample Survey.
27. Define PWD Act
- 28.Role of Mobile Units
29. Day care centers
30. Importance of Parental counselling.

**KARNATAKA NURSING & PARA MEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY
PARA MEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 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. How to use the Volume 3 of I.C.D 10?
2. Special tabulation list of Mortality & Morbidity?
3. Write briefly on basic coding guidelines?
4. Diseases of Digestive System.

EXPAND THE FOLLOWING ABBREVIATIONS.

5 x 1 = 5

5. MODS
6. IHD
7. LBW
8. COPD
9. DVT

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ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023
III YEAR DIPLOMA IN MEDICAL RECORDS TECHNOLOGY(DMRT)
TIME: 1Hrs (RS -2 SCHEME) MAX. MARKS: 30

QP CODE: 6146 MEDICAL & SURGICAL CODING

SHORT ANSWERS – ANSWER ANY TEN

10X3=30

1. Steps in classifying surgical procedures
2. Sources of Morbidity data
3. Difference between ICD-9 and ICD-10 (**any five**)
4. Dagger and asterisk system
5. Medical certification for Cause of death
6. Principles and rules of coding
7. What is Sequeale? Explain.
8. Define parentheses
9. Steps in classifying the diagnosis
10. Define Eponyms with one example
11. What is Two Code system? Explain.
12. Expand the abbreviations (a) IHD (b) LSCS (c) HTN

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ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 2023
II YEAR DIPLOMA IN PHYSIOTHERAPY (DPT)

TIME: 3Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE:5197

SECTION A: ALLIED THERAPEUTICS

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

1. Explain Physical Fitness.
2. Enumerate the factors which help in assessment of Cardio-respiratory functions.
3. Write about common sports injuries and briefly explain any of them.
4. Methods and Principles of acupunctures
5. Assessment of Co-ordination.

II SHORT ANSWERS (10x3=30)

6. Effects of Yoga in human body.
7. Factors contributing in making a healthy diet plan.
8. Adverse effects of junk foods.
9. Obesity.
10. Stress Management.
11. Brief note on any two injuries those are common in sports.
12. Dos and Dont's while doing physical exercises.
13. Homeopathy.
14. Naturopathy.
15. Cardio-respiratory parameters in physical exercise.

QP CODE: 5198

SECTION B: PHARMACOLOGY

III. SHORT ESSAY (ANSWER ANY FOUR) 4 X 5 = 20

16. Mention 3 advantages and 3 disadvantages of Oral route of Drug Administration.
17. Mention 4 uses and 4 adverse effects of Corticosteroids.
18. Mention the factors Modifying the drug action.
19. Name the Hormones secreted by Pituitary Gland.
20. Uses and adverse effects of Diazepam.

IV. SHORT ANSWERS 10 X 3 = 30

21. Name 3 Local Anaesthetic agents and its uses.
22. Name 3 Fat Soluble Vitamins.
23. Organo Phosphorus Poisoning.
24. Name the Hormones of Thyroid.
25. Mention the 3 uses of Aspirin.
26. Name the agents used for Fumigation.
27. Mention Three uses of Adrenaline.
28. Name 3 Oral Hypoglycemic agents.
29. Name 2 Immuno Suppressants.
30. BCG Vaccine.

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ANNUAL EXAMINATION, OCTOBER / NOVEMBER - 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 300 words **15X1=15**

1. COVID-19
2. Air Pollution.

Answer any one (Letter writing) **1x10=10**

3. Write a letter to your Principal requesting for requesting him to issue Character Certificate
4. Write a letter to your parents telling them about your paramedical course.

5. Use the following idioms/phrases in sentence of your own **5x1=5**

- a) Piece of cake b) A Black sheep c) Call One's name d) Childs play e) Drop off

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

- a) Anju said to Archana "I am returning to my home town tomorrow"
- b) 'Keerthi writes very well' said her friend
- c) If I see Jai, I shall certainly bring him here said Dr. Rajesh
- d) He said to you, "what is the price of this tray"?
- e) "Will you follow me to the village"? Rashid asked me.

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

- a) The Manager will give you directions
- b) The entire furnitures are made by Harish
- c) Our boys won many prizes
- d) Archana made a garland in one day
- e) All the arrangements are being made by our college management.

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

- a) Active b) Night c) Occupy d) Soft e) Artificial

9. Fill in the blank with the suitable preposition **5x1=5**

- a) His house is the river
- b) He always Smilesothers.
- c) He wentthe Park.
- d) He comes once inweek
- e) Salman met Amir.....5 o'clock in the eve

10. Fill in the blanks with articles **5x1= 5**

- a) Bengaluru is..... big city
- b) Iron isuseful metal.
- c) Radha is only girl who won the match
- d) I sawtruck on the road.
- e) She is.....beautiful girl

11. Give the synonyms of the following **5x1=5**

- a) Hide b) Run c) Move d) Use e) Famous

12. Read the following passage carefully and answer the questions that follow **10**

- (1) India is a secular, democratic nation. This implies that every religion is treated equally and at par with every other religion. No religion is accorded any preferential treatment of any kind. All citizens are also free to practice, preach or profess any religion of their choosing. The state does not have a unified or homogeneous religious following
- (2) This unique characteristic of India ensures its unity in diversity. India has been the Christianity, Buddhism, Sikhism, Zoroastrianism, Jainism and so on exist simultaneously, peacefully and harmoniously.
- (3) But, some anti-social elements have interpreted the sanctity of religions in a twisted way. No religion preaches violence or rioting. All the religions are but various ways to reach the Supreme Being, they are paths which lead to the ultimate truth and salvation, though we refer to the destination by various names such as Jesus, Krishna, Buddha, Allah and so on. It is important to realize that in order to ensure a peaceful mosaic of cultural distinctness, the path of non-violence or ahimsa, has given by the Father of the nation, must be followed unwaveringly.
- (4) God created man in his own image. Hence, it follows naturally that there is some divinity within all human beings. Thus, to kill and murder in the name of religion is blasphemy. Only once the religious fanatics understand this, will there be perpetual peace in the land.

(A) On the basis of your reading of the above passage, answer the following questions:

- (a) What is special about India's association with religion? (1)
- (b) What is meant by the term 'secular'? (1)
- (c) Why are human beings divine? (1)
- (d) Which is a secular, democratic nation? (1)
- (e) What are the religions mentioned in the passage? (2)
- (f) How can all religions co-exist peacefully? (2)

(B) Find the words from the passage which mean the same as the following: (1x2=2)

- (g) All (para1)
- (h) Several (Para 2)

13. Write the correct medical term **(10x1=10)**

- a) Gynae b) Cyto c) Patho d) Embryo e) Immu f) Ortho g) Radi h) Phy i) Onco j) ICU

14. E mail writing **1x5=5**

Write an Email to a company ordering some medicines.

15. Fill in the blanks with appropriate articles and prepositions given in the bracket

(at, the, by, for, at) **1x5=5**

.....little girls, who had been told that Lincoln was not very good looking, was taken.....
her father to see the President the white house. Lincoln chatted with her.....
a while in his gentle, humorous way. Suddenly the little girl called out, "Daddy! He is not
ugly... .. all. He is just beautiful.

16. Re-arrange the jumbled segments to form a sentence. **1x6=6**

- a) A good husband / chose /her parents/her
- b) letters/tomorrow/will write /he
- c) A bag of gold/the king / the post/gave
- d) good Morning/the students /their teacher/wished
- e) Licked / the cat/the saucer/ calmly
- f) Carefully / drives / the scooter /Kannan

17. Complete the following dialogue (situation base conversation) **4x1=4**

Shop Keeper: What do you want?

Boy:

Shop Keeper:

Boy: No I want only a cheap pen

Shop Keeper: What ?

Boy: I would like to have a green one

What.....

Shop Keeper: It will cost a rupee
