

# MODEL QUESTION PAPER (RS2)

PARAMEDICAL BOARD, BENGALURU

Time: 3.00 HRS

Max Marks:100

**COURSE: II DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY**

**SUBJECT: ANATOMY**

**SECTION A**

**QP CODE: 5101**

**I. Short notes, answer any FOUR questions.**

**4 X 5 = 20**

1. Describe shoulder joint
2. Describe the anatomy of eye ball
3. Describe the popliteal fossa
4. Describe deltoid muscle
5. Describe the muscles of anterior abdominal wall

**II. Short answers**

**10 X 3 = 30**

6. Classify connective tissue with examples
7. Give examples for long bones
8. Name the muscles in gluteal region
9. Give examples for synovial joints
10. Classify vertebrae
11. Name the extra ocular muscles
12. Name any 6 bones of skull
13. Name the contents of anterior triangle of neck
14. Name the carpal bones
15. Name the muscles in leg

**SUBJECT: PHYSIOLOGY**

**SECTION –B**

**QP CODE: 5102**

**I. Short Notes: Answer any four questions**

**4x5=20**

1. Functions of plasma proteins
2. Transport across cell membrane
3. Hypoxia
4. Draw a neat labelled diagram of cell. Add a note on varicose cell organelles
5. List types of clotting mechanisms add a note on anticoagulants and hemophilia

**II. Short answers**

**10 X 3 = 30**

6. Define bleeding time and clotting time. Give their normal values.
7. Define anemia. Normal value of hemoglobin and RBC count
8. List hormones of pituitary glands.
9. Define apnoea dyspnea tachypnea
10. Enumerate types of muscles
11. Surfactant
12. List 3 functions of skin
13. List 3 functions of blood
14. List factors of refraction
15. List 3 functions of liver

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**MODEL QUESTION PAPER (RS2)**

**PARAMEDICAL BOARD, BENGALURU**

**Time: 3.00 HRS**

**Max Marks:100**

**COURSE: II DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY**

**SUBJECT: BIOCHEMISTRY**

**QP CODE: 5103**

**I. Short notes, answer any EIGHT questions.**

**8 X 5 = 40**

1. Explain the principle and components of Colorimeter. Write about Beer Lambert's law.
2. Centrifuge.
3. Enumerate the safety precautions to be taken in the laboratory. What will you do if any of your co workers gets an accidental needle stick injury?
4. Ion selective Electrodes.
5. Describe about the use, care and maintenance of Water Distillation Plant and water Deioniser.
6. Classification of Amino acids.
7. Factors affecting Enzyme velocity.
8. Write about the components of lipid profile with the normal reference range. Add a note on significance of LDL.
9. Write about the sources, RDA and absorption of Vitamin B12.
10. Classify carbohydrates. Add a note on Lactose intolerance.

**II. Short answers**

**20 X 3 = 60**

11. Cold Box.
12. Weighing of hygroscopic compounds.
13. How to use a Reflux condenser?
14. Write about cleaning of plastic ware in laboratory.
15. Name the different types of flasks with one use of each.
16. Biological importance of fats .
17. EDTA tubes.
18. Cuvettes.
19. Calibration of glass pipettes.
20. Significance of Borosilicate glassware in laboratory.
21. Rancidity of fats.
22. Internal Quality control.
23. Transamination.
24. Name the organic constituents of normal urine and tests used to detect them.
25. Write the Henderson Hasselbalch equation. Differentiate between weak and strong acid.
26. Night Blindness.
27. Write about the rationale of colour change of any indicator in acidic and basic conditions.
28. Hygroscopic salts.
29. Normal values of serum Sodium, Potassium and Chloride.
30. What is Hemolysis? Name any two serum parameters whose estimation is affected by Hemolysis.

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## MODEL QUESTION PAPER (RS2)

PARAMEDICAL BOARD, BENGALURU

Time: 3.00 HRS

Max Marks:100

COURSE: II DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY

SUBJECT: PATHOLOGY

QP CODE: 5105

### I. Short notes, answer any EIGHT questions.

8 X 5 = 40

1. Describe principle, procedure and importance of Benedict's test.
2. Write various methods of urine sample collection with mention on types of preservatives.
3. Write about stool examination for occult blood.
4. Describe types and use of different types of vacutainers.
5. Preparation and staining of peripheral smear.
6. Write a note on sample collection, physical and microscopic examination of CSF.
7. Mention stains used in cytopathology. Describe PAP staining procedures.
8. Mention equipments used in histopathology with note on tissue processing.
9. Composition of Harris haematoxylin. Write about H&E procedure.
10. End point decalcification.

### II. Short answers

20 X 3 = 60

11. Mention four anticoagulants. Mention two uses of EDTA as an anticoagulant.
12. Describe urine sample preparation for urine microscopy.
13. Write about composition of Leishman stain with a note on preparation of the working solution of the stain.
14. Mention the blood indices and their importance.
15. Write about equipments used, procedure and importance of absolute eosinophil count.
16. Automation in complete blood count (CBC) analysis.
17. Write about advantages and disadvantages of cyanmethemoglobin method of hemoglobin estimation.
18. Write about physical examination of urine sample.
19. Write on stool microscopy for ova and cyst.
20. Write principle and types of dipstick method of urine analysis.
21. Write about Preparation and staining of Sputum smear. Add a note on sputum microscopy.
22. Write a note on Physical examination of pleural fluid.
23. Demonstration of BARR bodies.
24. Write about advantages of DRY and WET smear in cytopathology.
25. Write a note on grossing technique in histopathology.
26. Mention four fixatives used in histopathology. What is master registry in histopathology.
27. Mention indications of PAP smear. Describe advantages of PAP stain in cytopathology.
28. Write about preparation of eosin reagent for H&E stain.
29. Mention various types of Haematoxylin.
30. Mention special stains used in Histopathology.

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**PARAMEDICAL BOARD, BENGALURU**

**Time: 3.00 HRS**

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**COURSE: II DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY**

**SUBJECT: MICROBIOLOGY**

**QP CODE: 5107**

**I. Short notes, answer any EIGHT questions.**

**8 X 5 = 40**

1. Koch's postulates
2. Fluorescent microscopy
3. Hot air oven
4. Enriched media
5. Coagulase test
6. Passive immunity
7. Antigen
8. Type 4 hypersensitivity reaction
9. Preparation of ZN stain
10. ELISA

**II. Short answers**

**20 X 3 = 60**

11. Capsule
12. Sterilization controls
13. Pasteurization
14. Name three motile bacteria
15. Name three spore bearers
16. Name three anaerobic culture media
17. Lawn culture
18. Name three citrate positive bacteria
19. Name any three Gram negative bacteria
20. Cold sterilization
21. Name any three Gram positive bacteria
22. Name three hospital acquired infections
23. Name three antibodies
24. List the route of infection
25. List the ingredients of Gram stain
26. Name 3 secondary stains
27. Give an example for simple, differential and special stains
28. Define antibody, buffers and stain
29. Name three agglutination tests.
30. Draw a neat labeled diagram of IgG

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**MODEL QUESTION PAPER (RS2)**  
**PARAMEDICAL BOARD, BENGALURU**

**Time: 3.00 HRS**

**Max Marks:100**

**COURSE: II DIPLOMA IN HEALTH INSPECTOR**  
**SUBJECT: PAPER I** **QP CODE: 5111**

**I. Short notes, answer any EIGHT questions.**

**8 X 5 = 40**

1. Explain epidemiological triad with a neat diagram
2. Write a note on dimensions of health
3. Add a note on Iceberg phenomenon with one example.
4. Structure and functions of heart
5. Explain disease control, elimination and eradication with one example each.
6. Write a note on social problems. Name any 4 of them.
7. Role of diet in health
8. What are the types of family? Mention advantages and disadvantages.
9. Alcohol abuse
10. Write a note on industrialization and its impact on health.

**II. Short answers**

**20 X 3 = 60**

11. Mention three diseases associated with poverty
12. Mention different types of rehabilitation.
13. What are risk factors for diseases give three examples
14. Problem family.
15. What is anthropology?
16. What are the functions of respiratory system?
17. Mention three components of Human Development Index
18. Mention three mortality indicators
19. Germ theory of disease
20. Name three hormones with their functions
21. What is secondary prevention? Give suitable example
22. What is rehabilitation?
23. Health team
24. Name special sense organs
25. Give three examples of specific protection
26. Personal hygiene.
27. Acculturation
28. Give three examples of cultural factors affecting health
29. Effects of smoking
30. Importance of family in health give three examples

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**MODEL QUESTION PAPER (RS2)**  
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**COURSE: II DIPLOMA IN HEALTH INSPECTOR**  
**SUBJECT: PAPER II** **QP CODE: 5113**

**I. Short notes, answer any EIGHT questions.**

**8 X 5 = 40**

- 1) Sanitary well
- 2) Discuss the effects of noise pollution
- 3) What is sewage? Discuss the health aspects of improper sewage disposal
- 4) Sanitation barrier
- 5) Housing standards
- 6) Prevention and control of soil transmitted helminthes
- 7) Discuss mosquito control measures
- 8) Name some diseases transmitted by housefly. Discuss the fly control measures
- 9) Public health importance of hard ticks. Discuss the control of ticks and mites
- 10) Public health importance of tiger mosquito. Discuss the control measure of the same

**II. Short answers**

**20 X 3 = 60**

- 11) Give 3 examples for water borne diseases spread by helminthes
- 12) Breakpoint chlorination
- 13) Bleaching powder
- 14) Septic tank
- 15) Mention any 3 methods of solid waste disposal
- 16) Give examples for different types of ventilation
- 17) List the preventive measures of air pollution
- 18) Mention the compounds resulting in hardness of water
- 19) Orthotoluidine test
- 20) Sulabh shauchalaya
- 21) Tablet albendazole
- 22) Give 3 examples of diseases transmitted by mosquito
- 23) Define definitive host with an example
- 24) Give 3 examples of diseases transmitted by sand fly
- 25) Give examples for commonly used insecticides
- 26) Give examples for diseases transmitted by rats
- 27) Give examples for environmental control of mosquitoes
- 28) Give examples for biological transmission of arthropod borne diseases
- 29) Female anopheles mosquito
- 30) Define vector

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**MODEL QUESTION PAPER (RS2)**  
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**Time: 3.00 HRS**

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**COURSE: II DIPLOMA IN HEALTH INSPECTOR**  
**SUBJECT: PAPER III QP CODE: 5115**

**I. Short notes, answer any EIGHT questions.**

**8 X 5 = 40**

- 1) Cold chain system
- 2) Levels of Prevention with an example each
- 3) Types of Screening
- 4) Define Epidemiology. Classify of Epidemiological Studies
- 5) Carriers-Classify and give suitable examples
- 6) Vitamin A deficiency, prevention and control
- 7) Food fortification
- 8) Census
- 9) Stages in Demography cycle
- 10) Endemic fluorosis

**II. Short answers**

**20 X 3 = 60**

- 11) Incidence rate
- 12) Uses of Screening
- 13) Chemical Agents of Disinfection-any three
- 14) Measles Vaccine-Dosage and Route of administration
- 15) Name any three Live and Killed Vaccines
- 16) Define Sensitivity and Specificity
- 17) Endemic
- 18) Adverse Events Following Immunization-any three
- 19) Incubation Period
- 20) Reservoir
- 21) Uses of Health information
- 22) Name some foods rich in fats
- 23) Give examples for pulses
- 24) Iodized salt
- 25) Food additives
- 26) Parboiling of rice
- 27) Age pyramid
- 28) Classify Vitamins
- 29) Sources of Vitamin B12
- 30) Mid-day School Meal

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**MODEL QUESTION PAPER (RS2)**  
**PARAMEDICAL BOARD, BENGALURU**

**Time: 3.00 HRS**

**Max Marks:100**

**COURSE: II DIPLOMA IN MEDICAL IMAGING TECHNOLOGY (RS2)**

**SUBJECT: RADIATION PHYSICS**

**Q P CODE: 5121**

**I. Short notes, answer any EIGHT questions.**

**8 X 5 = 40**

1. Construction of stationary anode tube
2. Working principle, merits and demerits of Digital fluoroscopy
3. Construction & working of step up transformer
4. Construction, merit and demerit of a half wave rectifier
5. Working principle of an ionization chamber
6. Write note on Atom
7. Give electromagnetic spectrum and their uses
8. Give the production and properties of beta rays
9. Explain with fig. the spectral distribution of X-ray emitted by an XRT
10. State the working principle of MRI

**II. Short answers**

**20 X 3 = 60**

11. Define potential, current and resistance
12. State ohms law with equation.
13. List different types of current with their wave forms
14. State the importance of earthing of an electrical device
15. Differentiate single and three phase AC
16. How do you classify materials based on their resistances
17. Discuss the merits of solid state detectors over ionization chamber
18. Write note on overloading of an X-ray tube
19. Write note on cooling techniques used in X-ray tube
20. Write note on Fuses
21. Define: BE of an atom, Ionization, Excitation
22. Define with examples: elements, Isotopes & Isomers
23. Define : Radioactivity, half life period and mean life
24. Define the 2 different processes of X-ray production
25. Define : Primary, Secondary and Scattered radiation
26. Define: Inherent filter , Added filter & Total filter
27. Write note on Bone densitometry
28. List the important parts data acquisition scheme of CT
29. List the internal components of a CT gantry
30. List the functions of a CT collimator

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**MODEL QUESTION PAPER (RS2)  
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**Time: 1.30 HRS**

**Max Marks:50**

**COURSE: II DIPLOMA IN MEDICAL IMAGING TECHNOLOGY (RS2)**

**SUBJECT: ANATOMY**

**QP CODE: 5123**

**I.Short Answers, (Answer any 4 )**

**4 x 5 = 20**

1. Describe heart in detail
2. Describe the parts of central nervous system with a neatly labelled diagram.
3. Palatine tonsil
4. List the parts of female reproductive system, Describe gross features of fallopian tube.
5. Synovial joint in detail

**II. Short Notes**

**10 x 3 = 30**

6. Mention any 4 endocrine glands
7. Mention any 4 veins of lower limb
8. Mention any 4 nerves of upper limb
9. Mention the parts of hip bone
10. Mention any 4 branches of external carotid artery
11. Pharynx
12. Mention the associated glands of digestive system
13. Mention any 4 tributaries of Inferior vena cava
14. Mention the layers of skin
15. Mention the parts of small intestine

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**MODEL QUESTION PAPER (RS2)  
PARAMEDICAL BOARD, BENGALURU**

**Time: 1.30 HRS**

**Max Marks:50**

**COURSE: II DIPLOMA IN MEDICAL IMAGING TECHNOLOGY (RS2)**

**SUBJECT: PHYSIOLOGY**

**QP CODE: 5124**

**I. SHORT NOTES – ANSWER ANY FOUR**

**4x5=20**

1. Describe Erythropoiesis.
2. List the properties of synapse.
3. List the functions of Bone and Muscles.
4. Lung volumes.
5. Movements of Intestine.

**II. SHORT ANSWERS**

**10X3=30**

6. Functions of CSF.
7. Organ of Corti.
8. Two Refractive errors and their corrections.
9. Immunological pregnancy tests.
10. Rh blood group.
11. List the hormones of adrenal cortex.
12. Pulmonary surfactant.
13. Functions of gall bladder.
14. Draw and label reflex Arc .
15. Hazards of mismatched blood transfusion.

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**MODEL QUESTION PAPER (RS2)**  
**PARAMEDICAL BOARD, BENGALURU**

**Time: 1.30 HRS**

**Max Marks:50**

**COURSE: II DIPLOMA IN MEDICAL IMAGING TECHNOLOGY (RS2)**

**SUBJECT: PATHOLOGY**

**QP CODE: 5125**

**I. Short Notes: Answer any FOUR questions**

**4x5=20**

1. Define acute inflammation. Write briefly about fracture healing.
2. What is emphysema. Write about the types of emphysema with a note on its morphology.
3. Osteochondroma.
4. Mention causes of carcinoma stomach. Write briefly morphology of linitis plastica.
5. Chronic cholecystitis.

**II. Short Answers**

**10x3=30**

6. Risk factors for myocardial infarction.
7. Achalasia cardia.
8. Stages of lobar pneumonia.
9. Phyllodes tumor of breast.
10. Fibroid uterus.
11. Write about types of carcinoma of thyroid
12. Vitamin C deficiency.
13. Causes of epistaxis.
14. Morphology of carcinoma of colon.
15. Write about differences between dry and wet gangrene.

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**MODEL QUESTION PAPER (RS2)**  
**PARAMEDICAL BOARD, BENGALURU**

**Time: 3.00 HRS**

**Max Marks:100**

**COURSE: II DIPLOMA IN OPERATION THEATER AND ANAESTHESIA**  
**TECHNOLOGY (RS2)**

**SUBJECT: FUNDAMENTAL OF OT & BASIC CONCEPT OF SURGERY**

**Q P CODE: 5131**

**I. Short notes, answer any FOUR questions.**

**8 X 5 = 40**

- 1) Sterile team members
- 2) Pre operative preparation of patient before surgery.
- 3) Universal precautions in handling the instrument.
- 4) Pros and Cons of disposables
- 5) Methods of Sterilization
- 6) Ambulatory (day care) surgery
- 7) Check list of patients before surgery
- 8) CPR
- 9) Criteria for Positioning
- 10) Methods of haemostasis

**II. Short answers**

**20 X 3 = 60**

- 11) Supply of gases
- 12) Scrub Nurse
- 13) Precautions in Using Cautery
- 14) Iodine
- 15) Vacuum suction
- 16) Harmonic Scalpel
- 17) Bioburden
- 18) Gowning
- 19) Pre operative planning
- 20) Sitz bath
- 21) Nasogastric intubation - uses
- 22) Factors influencing wound healing
- 23) Types of sutures materials
- 24) Sims position
- 25) Carbon dioxide gas
- 26) IVP (Intra Venous Pyelography)
- 27) Patient Nurse relationship
- 28) Pulse oximeter
- 29) Skin Preparation
- 30) Types of urinary catheter

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**MODEL QUESTION PAPER (RS2)  
PARAMEDICAL BOARD, BENGALURU**

**Time: 3.00 HRS**

**Max Marks:100**

**COURSE: II DIPLOMA IN OPERATION THEATER AND ANAESTHESIA  
TECHNOLOGY (RS2)**

**QP CODE: 5133 SECTION-A, BIOCHEMISTRY**

**I. Short Essay: (Answer any FIVE questions) 5 x 5 =25**

- 1) Classification of amino acids.
- 2) Define carbohydrates. Classify with suitable examples.
- 3) Discuss the ionization of water.
- 4) Discuss the concepts of acid base reaction.
- 5) What are plasma proteins? Write its classification.
- 6) Define purines and pyrimidines. Discuss the structure of DNA

**II. Write short answers 5 X 3 =15**

- 7) Universal indicators.
- 8) Respiratory acidosis
- 9) Classification of lipids with examples.
- 10) Benedict's test
- 11) t RNA

**QP CODE: 5134 SECTION-B, PHARMACOLOGY**

**I. Long Essay (Answer any THREE) 3X5 = 15**

- 1 Mention any three advantages and two disadvantages of oral route of drug administration
- 2 Name any four commonly used Non-steroidal Anti-inflammatory drugs (NSAIDs).  
Mention any four uses and two adverse effects of Aspirin
- 3 Liquid dosage forms
- 4 Name any three Glucocorticoidss. Mention any four uses and two adverse effects of  
Glucocorticoids

**II. Short Answers 5X3 = 15**

5. Name three surface anesthetics
6. Name three uses of Vitamin C
7. Name three uses of Diazepam
8. Name three agents used in OT fumigation
9. Name the antidote for poisoning due to a. Morphine b. Paracetamol

**QP CODE: 5135 SECTION-C, MICROBIOLOGY**

**I. Write Short notes (any three) 3x5=15**

1. Robert Koch
2. Hot air oven
3. Innate immunity
4. Bacterial cell wall

**II. Write short answers 5x3=15**

5. Draw a neat labeled diagram of Hepatitis B virus
6. List the measures to prevent HIV
7. Name any 3 alcoholic disinfectants
8. Pasteurization
9. List the materials sterilized in Autoclave

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**MODEL QUESTION PAPER (RS2)**  
**PARAMEDICAL BOARD, BENGALURU**

**Time: 3.00 HRS**

**Max Marks:100**

**COURSE: II DIPLOMA IN OPERATION THEATER AND ANAESTHESIA**  
**TECHNOLOGY (RS2)**

**QP CODE 5136**

**ANATOMY**

**I. Short Notes, Answer any FOUR questions**

**4 x 5 = 20**

1. Classify joints with examples
2. Describe thyroid gland in detail
3. Write in detail about larynx
4. Describe Ovary in detail
5. Describe gross features of lung

**II. Short Answers**

**10 x 3 = 30**

6. Mention any 4 veins of upper limb
7. Mention any 4 Branches of cervical plexus
8. Right atrium
9. Mention the coverings of brain
10. Mention any 4 types of epithelium
11. Mention any 4 muscles of abdomen
12. Mention any 4 features of spleen
13. Mention the cells & fibres of connective tissue
14. Mention the organs of special senses
15. Mention the types of vertebral bone

**QP CODE 5137**

**PHYSIOLOGY**

**I. Short Notes – Answer any FOUR questions**

**4 x 5=20**

- 1) Plasma Proteins.
- 2) Draw a labeled diagram of Nephron
- 3) Pancreatic Juice.
- 4) Hypoxia.
- 5) Neuromuscular Junction.

**II. Short Answers**

**10 x 3 =30**

6. Menstrual cycle
7. Functions of cerebro spinal fluid.
8. Cardiac output
9. Oxytocin
10. Contraception in females
11. Surfactant
12. Active transport across cell membrane.
13. Hemoglobin
14. Types of sensory receptors
15. Deglutition

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**MODEL QUESTION PAPER (RS2)**  
**PARAMEDICAL BOARD, BENGALURU**

**Time: 3.00 HRS**

**Max Marks:100**

**COURSE: II DIPLOMA IN MEDICAL RECORDS TECHNOLOGY (RS2)**

**Subject: Medical Record Sciences**

**Q P CODE: 5141**

**I. Short notes, answer any EIGHT questions.**

**8 X 5 = 40**

- 1) Write brief History of Medical Records In India?
- 2) Write brief note about the Medical Records Committee?
- 3) what is the duties and responsibilities of Reception counter Staff?
- 4) what is Assembling and Deficiency? Explain
- 5) Write brief note about the Registration personnel duties and responsibilities?
- 6) Write brief note about the Organization of Medical Record Department (MRD)?
- 7) Write brief note about the functions of MRD?
- 8) what is the duties and responsibilities MRD Staff?
- 9) Write the Rules and Regulation of Birth and death Act?
- 10) Write brief note about Medico Legal Cases?

**II. Short answers**

**20 X 3 = 60**

- 11) What is Inventory register? Explain
- 12) What is Mid Night Census? Explain
- 13) Write the Functions of Emergency medical services (EMS)?
- 14) Write the contents of Discharge Summary
- 15) Design Deficiency Check format
- 16) Accident Register
- 17) How to preserve the Medical Records for long time?
- 18) What is patient Alpha Index Card? Explain
- 19) What types of equipment required in MRD?
- 20) Duties and Responsibility of Medical Records Officer?
- 21) Define Court
- 22) Why made Corrigendum in MRD?
- 23) Which is the active and inactive records explain?
- 24) What is ICD ? Explain
- 25) What procedure following encase of Production of Medical Records in the Court?
- 26) Define Cognizable and Non Cognizable
- 27) Who is the public servant? Explain
- 28) What procedure following the release of Information of Medical Records in Third party?
- 29) Write the procedure of get the Age Estimation Certificate?
- 30) Wound Certificate?

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**MODEL QUESTION PAPER (RS2)  
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**Time: 3.00 HRS**

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**COURSE: II DIPLOMA IN MEDICAL RECORDS TECHNOLOGY (RS2)**

**QP CODE: 5143 SECTION-A, ANATOMY**

**I.Short Answers, (Answer any 2 ) 2 x 5 = 10**

1. Describe spinal cord
2. Define epithelium, classify with examples
3. Mention the parts of young long bone with diagram

**II. Short Notes 10 x 3 = 30**

4. Mammary gland
5. Name any 4 nerves of upper limb
6. Mention any 4 arteries of lower limb
7. Palatine tonsil
8. Paranasal air sinuses
9. Name the organs of special senses
10. Mention the associated glands of digestive system
11. Mention the parts of synovial joints
12. Urethra
13. Mention any 4 organs of respiratory system

**QP CODE: 5144 SECTION-B, PHYSIOLOGY**

**I. Short Notes – Answer any THREE questions 3 x 5=15**

1. E.C.G.(Electro cardiogram)
2. Intrinsic mechanism of blood coagulation.
3. Transport of oxygen in blood.
4. Neuromuscular junction

**II. Short Answers 5 x 3 =15**

5. Landsteiner's Law
6. Write the normal values of 1) Pulse 2) Blood pressure 3) Cardiac Output
7. Pregnancy tests.
8. Hypoxia
9. Bile Juice

**QP CODE: 514, SECTION-C, PATHOLOGY & MICROBIOLOGY**

**II. Short Notes: Answer any THREE questions 3x5=15**

1. Define neoplasia. Write differences between benign and malignant tumors.
2. Tuberculosis osteomyelitis.
3. Cirrhosis of liver.
4. Define hyperplasia. Give four examples.

**II. Short Answers 5x3=15**

5. Nasal polyps.
6. Mention four gram positive bacteria of medical importance.
7. Mention four parasites of medical importance.
8. Name 6 common infectious diseases.
9. Fibroid uterus.

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**PARAMEDICAL BOARD, BENGALURU**

**Time: 3.00 HRS**

**Max Marks:100**

**COURSE: II DIPLOMA IN MEDICAL RECORDS TECHNOLOGY (RS2)**  
**QP CODE 5146      HOSPITAL STATISTICS & BIOSTATISTICS**

**I. Short notes, answer any EIGHT questions**

**8 x5 =40**

1. Define data. Explain methods of data collection.
2. Characteristics of standard normal curve.
3. Explain standard deviation and write down its merits and demerits
4. Calculate Range, Mean deviation and Standard deviation of 22,24,18,36,27,42,28
5. Explain about Bar diagram
6. Define Morbidity and explain two indicators
7. Explain about Census
8. Explain civil registration system
9. Notification of diseases
10. Crude birth rate and general fertility rate

**II. Short answers**

**20 x3 = 60**

11. Uses of biostatistics
12. Define variable with example
13. Histogram
14. Standard normal curve
15. Median and Mode
16. Variable and its types
17. Pie chart
18. Sample and population
19. Tabulation of data
20. General format of table
21. Age specific Fertility rate
22. Define Admission and Discharge
23. Bed occupancy rate
24. Average length of stay
25. Hospital death rate
26. Autopsy rate
27. Caesarean section rate
28. Prevalence
29. Infant mortality rate
30. Net reproduction rate

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**MODEL QUESTION PAPER (RS2)**  
**PARAMEDICAL BOARD, BENGALURU**

**Time: 3.00 HRS**

**Max Marks:100**

**COURSE: II DIPLOMA IN DIALYSIS TECHNOLOGY (RS2)**  
**Subject: PHARMACOLOGY** **Q P CODE: 5151**

- I. Short notes, answer any FOUR questions. 4 X 5 = 20**
1. Uses and contraindications for the use of opioid analgesics.
  2. Management of status asthmaticus.
  3. What are the general considerations when choosing an antibiotic?
  4. Write about calcium preparations.
  5. Write the differences between dopamine and dobutamine.
- II. Short answers 10 X 3 = 30**
6. Sources of drug information.
  7. Uses of pantoprazole.
  8. Hematinics and their uses.
  9. Influenza vaccine.
  10. Dicoumarol.
  11. Propofol
  12. Intradermal route of drug administration
  13. Uses of amiodarone.
  14. Side effects of atropine.
  15. Uses of Domperidone.

**SUBJECT: THEORY OF DIALYSIS**

**Q P CODE: 5152**

- I. Short notes, answer any FOUR questions. 4 X 5 = 20**
1. Describe consequences of renal failure
  2. Enumerate the advantages of dialyzer reuse.
  3. What are AAMI standards for water quality in HD?
  4. Anatomy of artificial kidneys (dialyzers) with diagram
  5. Precautions to be taken while dialyzing a sero-positive patient for patient and your safety
- II. Short answers 10 X 3 = 30**
6. Disadvantage of dialyzer reuse
  7. What is osmosis?
  8. Name anticoagulants (IV and oral)
  9. Types of dialyzers based on flux
  10. Name disinfectants used in sterilization of dilayzers
  11. What are the types of dialysis catheters?
  12. KUF (Co efficient of ultrafiltration)
  13. What is ultrafiltration (UF)?
  14. What is CCPD/ APD?
  15. Types of vascular access in HD

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**MODEL QUESTION PAPER (RS2)**  
**PARAMEDICAL BOARD, BENGALURU**

**Time: 3.00 HRS**

**Max Marks:100**

**COURSE: II DIPLOMA IN DIALYSIS TECHNOLOGY (RS2)**

**QP CODE: 5153 SECTION-A, BIOCHEMISTRY**

**I Short Notes – Answer any four** **4 x 5 = 20**

1. Isoenzymes – Any Five
2. Abnormal constituents of urine
3. Renal regulation of p<sup>H</sup>
4. Heteropolysaccharides
5. Chylomicrons and LDL

**II Short Answers** **10 x 3 =30**

6. Bence Jones Proteins
7. Definition of acid and base
8. Biogenic amines
9. Laws of photometry
10. K<sub>m</sub>
11. Derived lipids
12. Metabolic Acidosis
13. Vandenberg Test
14. Pattern of Cardiac Enzymes in heart diseases
15. Creatinine Clearance Test

**QP CODE: 5154 SECTION-B, MICROBIOLOGY**

**Write Short notes (any four)** **4x5=20**

1. Koch postulates
2. Bacterial spore
3. Pasteurization
4. Universal precautions
5. Infection control measures

**Write short answers** **10x3=30**

6. Name any three materials used to sterilize in Autoclave
7. Name three viral vaccines
8. List any three normal flora of skin
9. List any three Gram positive bacteria
10. List any three contributions of Louise Pasteur
11. Draw a neat labeled diagram of Hepatitis B
12. List the mode of spread of HIV
13. List the sterilization control of Hot air oven
14. Name any three infections caused by Staphylococcus aureus
15. Name any 3 chemical disinfectants

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**MODEL QUESTION PAPER (RS2)**  
**PARAMEDICAL BOARD, BENGALURU**

**Time: 3.00 HRS**

**Max Marks:100**

**COURSE: II DIPLOMA IN DIALYSIS TECHNOLOGY (RS2)**  
**QP CODE 5155      SECTION-A      ANATOMY**

**I.Short Answers, (Answer any 4 )**

**4 x 5 = 20**

1. Name the parts of respiratory system & Describe Trachea briefly
2. Classify the glands with examples
3. List the parts of digestive system, describe stomach
4. Describe gross features of urinary bladder
5. Classify joints with examples

**II. Short Notes**

**10 x 3 = 30**

6. Mention any 4 bones of upper limb
7. Mention any 4 nerves of lower limb
8. Name the parts of brain
9. Mention the parts of male reproductive system
10. Mention the parts of uterus
11. Mention the differences between right and left lung
12. Mention the types of muscle
13. Name the quadrants of abdomen
14. Mention any 4 differences between right and left kidney
15. Mention the types of cartilage

**QP CODE 5156**

**SECTION-B**

**PHYSIOLOGY**

**I. Short Notes – Answer any four questions**

**4 x 5=20**

1. Functions of W.B.C
2. Electrocardiogram (E.C.G)
3. Functions of Kidneys
4. Functions of Thyroid Hormones
5. Acid base regulation of kidneys.

**II. Short Answers**

**10 x 3 =30**

6. Anaemia
7. Erythropoietin
8. Diagram of Structure of cell
9. Platelets
10. P.C.V (Packed cell volume)
11. Blood transfusion.
12. Parts of Nephron
13. Anticoagulants.
14. Functions of Oestrogen
15. Blood transfusion

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**MODEL QUESTION PAPER (RS2)**  
**PARAMEDICAL BOARD, BENGALURU**

**Time: 3.00 HRS**

**Max Marks:100**

**COURSE: II DIPLOMA IN OPHTHALMIC TECHNOLOGY (RS2)**

**Subject: PAPER I**

**Q P CODE: 5161**

**I. Short notes, answer any EIGHT questions 8 x5 =40**

- 1 . Cross section of upper eyelid
- 2 . Drainage of aqueous humour
- 3 . Ocular movements
- 4 . Uses of various mirrors in ophthalmology / Contents of orbit
- 5 . Types of astigmatism
- 6 . How to write prescription format
- 7 . Describe the types and management of Myopia
- 8 . Contact lenses and its indications
- 9 . Refractive surgeries
- 10 . Advantages of executive bifocal lenses

**II. Short answers 20 x3 = 60**

11. Methods of correction of aphakia
12. Antireflection coating
13. Parts of spectacles
14. Intraocular refractive surgeries
15. Visual acuity test in children
- 16 . Types of blepharitis
- 17 . Trichiasis
- 18 . schrimmer test
- 19 . Near vision charts
20. Uses of prism
21. Fogging technique
22. Astigmatic fan
23. Uses of cylindrical lens
24. A-scan
25. Grades of binocular single vision
- 26 . Multifocals
- 27 . Name the tests used to check binocular single vision
- 28 . Complications of contact lens use
- 29 . What is simple transposition of lenses for -2Dspherical 1.0 cylindrical at 90 degrees
30. Frisby test

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**MODEL QUESTION PAPER (RS2)**  
**PARAMEDICAL BOARD, BENGALURU**

**Time: 3.00 HRS**

**Max Marks:100**

**COURSE: II DIPLOMA IN OPHTHALMIC TECHNOLOGY (RS2)**

**Subject: PAPER II**

**Q P CODE: 5163**

**I. Short notes, answer any EIGHT questions 8 x5 =40**

1. Discuss Ophthalmia neonatorum. And its management
2. Classification of Diabetic retinopathy.
3. Interpretation of lacrimal syringing.
4. Chemical injuries of the eye.
5. Visual rehabilitation of cataract surgery patients.
6. Early diagnosis of glaucoma.
7. Diagnosis and treatment of amblyopia.
8. Ocular features of vitamin A deficiency.
9. Cover tests.
10. Concomitant squints.

**II. Short answers 20 x3 = 60**

11. Blepharitis.
12. Vitamin A deficiency.
13. Management of corneal aberrations.
14. Acute glaucoma.
15. Orbital cellulitis.
16. Types of hyper mature cataracts.
17. Investigations before cataract surgery.
18. Near vision correction following IOL surgery.
19. Types of senile cataract.
20. External hordeolum(stye).
21. Digital tonometry.
22. Static perimetry.
23. Optic disc examination in glaucoma.
24. Diabetic cataract.
25. Stereopsis.
26. Hypertensive retinopathy.
27. Mention grades of binocular single vision.
28. Topical beta blockers.
29. Night blindness.
30. Diabetes control for cataract surgery.

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**MODEL QUESTION PAPER (RS2)**  
**PARAMEDICAL BOARD, BENGALURU**

**Time: 1.30 HRS**

**Max Marks:50**

**COURSE: II DIPLOMA IN DENTAL MECHANICS (RS2)**

**SUB: Dental Materials & Metallurgy**

**Q P CODE: 5171**

**I. Short Notes, Answer Any FOUR Questions**

**4x5=20**

1. Classify dental waxes and explain about wax distortion
2. Types of cast and die materials
3. Incomplete casting
4. Difference between self-cure and heat cure resin
5. Physical and chemical stages of polymerisation

**II. Short Answers**

**10x3=30**

6. Black casting
7. Shrink spot porosity
8. Classification of gypsum bond investments
9. Forms of silica
10. Wet strength
11. Uses of impression plaster
12. Balanced stone
13. Type V gypsum
14. Composition of addition silicon
15. Dust free alginate

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**MODEL QUESTION PAPER (RS2)  
PARAMEDICAL BOARD, BENGALURU**

**Time: 1.30 HRS**

**Max Marks:50**

**COURSE: II DIPLOMA IN DENTAL MECHANICS (RS2)  
QP CODE: 5172 APPLIED ORAL ANATOMY**

**A. WRITE SHORT NOTES ON ANY FOUR**

**4x5=20**

1. Anatomy of Mandibular Permanent Molar
2. Morphology of Mandibular canine
3. Stress bearing and relieving areas
4. Muscles of mastication
5. Tooth curving

**II. SHORT ANSWERS**

**10x3=30**

6. FDI tooth numbering
7. Bilabial sounds
8. Muscles of tongue
9. Incisive Pailae
10. Hamular Notch
11. Branches of facial nerve
12. Buccinator
13. Rugae
14. Mid-Palatine Raphae
15. Parotid duct

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**MODEL QUESTION PAPER (RS2)**  
**PARAMEDICAL BOARD, BENGALURU**

**Time: 1.30 HRS**

**Max Marks:50**

**COURSE: II DIPLOMA IN DENTAL HYGIENE (RS2)**

**Subject: Anatomy**

**Q P CODE: 5181**

**I. Short notes, answer any TWO questions.**

**2 X 5 = 10**

1. Describe the facial nerve
2. Write about nerve supply of tongue
3. Describe the development of tooth

**II. Short answers**

**5 X 3 = 15**

4. Thyroid gland
5. Name the bone cells
6. Lymphatic drainage of face
7. Name the muscles of mastication
8. Mention features of mandible

**Subject: General Physiology**

**Q P CODE: 5182**

**I. Short notes, answer any TWO questions.**

**2 X 5 = 10**

1. Write in short about conducting system of heart
2. Define GFR. What are the factors maintaining GFR
3. Write a note on the menstrual cycle.

**II. Short answers**

**5 X 3 = 15**

4. Name the hypothalamic hormones
5. Give a list of thyroid hormones
6. Which are the adrenal cortical hormones?
7. Diagrammatically discuss on airway system
8. Contraceptives of female

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**MODEL QUESTION PAPER (RS2)  
PARAMEDICAL BOARD, BENGALURU**

**Time: 1.30 HRS**

**Max Marks:50**

**COURSE: II DIPLOMA IN DENTAL HYGIENE (RS2)**

**QP CODE: 5183 SECTION-A,  
GENERAL PATHOLOGY & MICROBIOLOGY**

**I. Short Notes: Answer any FOUR questions 4x5=20**

1. Describe the investigations done in microbiology.
2. Dental nomenclature
3. Briefly describe pathology of peri-odontal infections.
4. Define inflammation. Describe the vascular events of acute inflammation.
5. Vitamin C deficiency.

**II. Short Answers 5X3= 15**

6. Mention 4 bacteria of medical importance.
7. Name common infectious diseases.
8. Define dental attrition and dental erosion.
9. Write two differences between benign and malignant tumors.
10. Oral candidiasis

**QP CODE- 5184 SECTION-B  
PHARMACOLOGY**

**I. Short Notes (Answer any one) 1X6 = 6**

1. Name any four commonly used Non-steroidal Anti-inflammatory drugs (NSAIDs). Write the four uses and two adverse effects of Aspirin.
2. Mention three advantages and two disadvantages of intravenous route of drug administration

**II. Short Answers 3X3 = 9**

3. Name two commonly used local anesthetics
4. Name two uses of Amoxycillin
5. Name two antiseptics used in dentistry

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**MODEL QUESTION PAPER (RS2)  
PARAMEDICAL BOARD, BENGALURU**

**Time: 1.30 HRS**

**Max Marks:50**

**COURSE: II DIPLOMA IN DENTAL HYGIENE (RS2)**

**QP CODE 5185**

**SECTION-A, GENERAL BIOCHEMISTRY  
(WRITE IN A SEPARATE ANSWER BOOKLET)**

- I. Short Notes:** **2 x 5 =10**
- 1) Discuss the formation of Urea.
  - 2) Briefly write about nutrition in relation to oral health.

- II. Write short answers** **5 X 3 =15**
- 1) Structure of DNA
  - 2) Define nucleosides and nucleotides
  - 3) Mention the abnormal constituents of urine
  - 4) Deficiency of vitamin D
  - 5) HDL cholesterol.

**QP CODE 5186 SECTION-B, RADIOLOGY  
(WRITE IN A SEPARATE ANSWER BOOKLET)**

- I. Long Essay** **2x 5=10**
- 1) Write in detail about radiation hazards and protection against radiation.
  - 2) Explain structure of atom and atomic number

- II. Write short notes** **5 x 3 = 15**
- 3) Bite wing radiographs
  - 4) Processing solutions
  - 5) Bisecting angle technique
  - 6) Paralleling technique
  - 7) OPG

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