

**PARAMEDICAL BOARD, BENGALURU
DENTAL HYGIENE**

Time: 1.30 HRS

Max Marks:50

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.**
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.**

Subject: Anatomy

Q P CODE: 5181

I. Short notes, answer any TWO questions. 2 X 5 = 10 marks

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 marks

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 marks

1. Write in short about conducting system of heart
2. What are the hon excretory of renal system?
3. Write a rote on the menstrual cycle.

II. Short answers 5 X 3 = 15 marks

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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Subject: Anatomy

Q P CODE: 5181

I. Short notes, answer any TWO questions. 2 X 5 = 10 marks

1. Describe the arterial supply and venous drainage of face
2. Write about muscles of mastication
3. Describe the trigeminal nerve

II. Short answers 5 X 3 = 15 marks

4. Name the hormones from anterior pituitary
5. Name the bone cells
6. Name the parts of cortex of adrenal gland
7. Name the any 6 muscles of facial expression
8. Mention features of temporal bone

Subject: General Physiology

Q P CODE: 5182

I. Short notes, answer any TWO questions. 2 X 5 = 10 marks

1. Define GFE. What are the factors maintaining GFR
2. Write about spermato sensor
3. What is cryptorchidism

II. Short answers 5 X 3 = 15 marks

4. Name the female reproductive hormones.
5. Describe any two pregnancy tests
6. Define receptors write on the type of sensor receptors
7. Define synapse. Draw a diagram of new muscle junction
8. Write a note on defecation reflex

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Subject: Anatomy

Q P CODE: 5181

I. Short notes, answer any TWO questions. 2 X 5 = 10 marks

1. Describe the structure of tooth
2. Describe the structure and function of thyroid gland
3. Describe the glossopharyngeal nerve

II. Short answers 5 X 3 = 15 marks

4. Name the hormones from adrenal gland
5. Name the branches of facial nerve
6. Write about thyroid gland
7. Name the muscles of tongue
8. Mention features of maxilla

Subject: General Physiology

Q P CODE: 5182

I. Short notes, answer any TWO questions. 2 X 5 = 10 marks

1. Name the female reproductive harms and add a note their functions.
2. Name and describe about renal function tests.
3. Define cardiac output. Name the factors helping in cardiac output.

II. Short answers 5 X 3 = 15 marks

4. With an example explain the negative and positive feedback system
5. Give list of anterior pituitary hormones
6. Name the muscles of ventilation
7. Define and add a note chemical nature of surfactant
8. Give a list of normal constituents of urine

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I. Short notes, answer any TWO questions. 2 X 5 = 10 marks

1. Describe the structure and function of pituitary gland
2. Write about muscles of facial expression
3. Describe the mandible bone

II. Short answers 5 X 3 = 15 marks

4. Give examples for simple squamous and cuboidal epithelium
5. Name the types of muscles
6. Define flexion. Supination and adduction
7. Name the movements produced by muscles of mastication
8. Write about hypothalamus

Subject: General Physiology

Q P CODE: 5182

I. Short notes, answer any TWO questions. 2 X 5 = 10 marks

1. Define blood pressure. What are the factors affecting blood pressure
2. Write on the renal functions of kidney
3. Name the male reproductive hormones and their functions.

II. Short answers 5 X 3 = 15 marks

4. What are the parathyroid hormones and their function.
5. Write about renal blood flow
6. What is compliance of lungs?
7. Define dyspnea and causes of dyspnea
8. Define pulse. What is normal pulse rate?

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I. Short notes, answer any TWO questions. 2 X 5 = 10 marks

1. Describe the structure and function of pancreas
2. Write about muscles of facial expression
3. Describe the blood supply and nerve supply of teeth

II. Short answers 5 X 3 = 15 marks

4. Give examples for cartilage
5. Name the cells and hormones produced by the parathyroid gland
6. Define anatomical position
7. Name the branches of trigeminal nerve
8. Give examples for stratified epithelium

Subject: General Physiology

Q P CODE: 5182

I. Short notes, answer any TWO questions. 2 X 5 = 10 marks

1. Draw a neat labelled diagram of a nephron
2. How many sounds can a heart produce? And how are they produced.
3. Define ECG? What are the waves of ECG.

II. Short answers 5 X 3 = 15 marks

4. Name the cranial nerves
5. What are the functions of ear?
6. What are the errors of refraction?
7. Name the functions of skin
8. What is pulmonary circulation?

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I. Short notes, answer any TWO questions.

2 X 5 = 10 marks

1. Pituitary Gland.
2. Trigeminal Nerve.
3. Masseter Muscle.

II. Short answers

5 X 3 = 15 marks

4. Hyaline Cartilage.
5. Smooth muscle.
6. Flexion.
7. Supine Position
8. Name Arteries supplying Face.

Subject: General Physiology

Q P CODE: 5182

I. Short notes, answer any TWO questions.

2 X 5 = 10 marks

1. Composition and functions of blood
2. Composition and functions of saliva
3. Describe Neuromuscular Junction with neat Labeled diagram.

II. Short answers

5 X 3 = 15 marks

4. Define Heart Rate and Stroke Volume. Give their normal values
5. List the hormones involved in calcium metabolism
6. Cu-T
7. Functions of respiratory system
8. Stem cells

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I. Short notes, answer any TWO questions.

2 X 5 = 10 marks

1. Thyroid Gland.
2. Facial Nerve.
3. Buccinator Muscle.

II. Short answers

5 X 3 = 15 marks

4. White Fibro Cartilage.
5. Striated Muscle.
6. Circumduction.
7. Prone Position.
8. Name Arteries Supplying Face.

Subject: General Physiology

Q P CODE: 5182

I. Short notes, answer any TWO questions.

2 X 5 = 10 marks

1. Describe Conducting system of the Heart
2. Explain Transport of oxygen in blood
3. Hormonal changes during Pregnancy

II. Short answers

5 X 3 = 15 marks

4. Peristalsis
5. Define Landsteiner's law. What is major and minor cross matching?
6. Abnormalities of taste sensation
7. Types of neuroglial cells
8. Define diffusion. Name types of diffusion

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I. Short notes, answer any TWO questions.

2 X 5 = 10 marks

1. Suprarenal Gland.
2. Glossopharyngeal nerve.
3. Temporalis Muscle.

II. Short answers

5 X 3 = 15 marks

4. Elastic Cartilage.
5. Cardiac Muscle.
6. Extension.
7. Lithotomy Position.
8. Name Lymph Nodes Draining Face.

Subject: General Physiology

Q P CODE: 5182

I. Short notes, answer any TWO questions.

2 X 5 = 10 marks

1. Name different types of taste sensation and describe the different types of taste bud
2. Describe different mechanisms of transport across cell membrane
3. Composition and functions of plasma proteins

II. Short answers

5 X 3 = 15 marks

4. Name different contraceptive methods in females
5. Define Blood Pressure, Systolic BP, Diastolic BP. give their normal values
6. What is cyanosis? Name different types of cyanosis
7. Functions of nerves
8. Olfaction

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I. Short notes, answer any TWO questions.

2 X 5 = 10 marks

1. Pancreas.
2. Vagus Nerve.
3. Pterygoid Muscles.

II. Short answers

5 X 3 = 15 marks

4. Functions of Cartilages.
5. Cardiac Muscle.
6. Abduction.
7. Anatomical Position.
8. Name Three Muscles of Facial Expression.

Subject: General Physiology

Q P CODE: 5182

I. Short notes, answer any TWO questions.

2 X 5 = 10 marks

1. Describe in detail the structure of synapse with the help of a neat labeled diagram.
2. Define hypoxia. Explain types of hypoxia.
3. Define Anemia and explain different types of Anemia

II. Short answers

5 X 3 = 15 marks

4. Name different types of cell junction
5. Functions of saliva
6. Name the hormones involved in glucose metabolism
7. What are heart sounds? Name different types of heart sounds
8. Olfactory mucosa

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Subject: Anatomy

Q P CODE: 5181

I. Short notes, answer any TWO questions. 2 X 5 = 10 marks

1. Muscles of Tongue.
2. Thyroid Gland
3. Facial Nerve.

II. Short answers 5 X 3 = 15 marks

4. Histology Of Bone.
5. Neuron.
6. Adduction.
7. Supine position.
8. Name Three Bones of Skull.

Subject: General Physiology

Q P CODE: 5182

I. Short notes, answer any TWO questions. 2 X 5 = 10 marks

1. Describe in detail steps involved in erythropoiesis
2. Name different Body fluid compartments and Explain different methods to measure the same.
3. Define Cardiac Output and Explain the factors regulating it.

II. Short answers 5 X 3 = 15 marks

4. Reflex arc
5. Vitamin D synthesis
6. Name different types of movements In GIT
7. Surfactant
8. Taste buds

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Subject: Anatomy

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I. Short notes, answer any TWO questions. 2 X 5 = 10 marks

1. Muscles of Mastication
2. Epithelium
3. Tongue

II. Short answers 5 X 3 = 15 marks

4. Hyaline Cartilage
5. Nerves of Head and Neck
6. Histology of tooth
7. Parts of Mandible
8. Paranasal air sinuses

Subject: General Physiology

Q P CODE: 5182

I. Short notes, answer any TWO questions. 2 X 5 = 10 marks

1. What is erythropoiesis? Name the stages of erythropoiesis
2. Describe the composition, functions of secretion of saliva.
3. Describe the structure of taste bud. Trace taste pathway.

II. Short answers 5 X 3 = 15 marks

4. Name Coagulation factors.
5. List lung volumes and capacities.
6. Define cardiac output, give its normal values
7. Name posterior pituitary hormones.
8. Waves of ECG.

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Subject: Anatomy

Q P CODE: 5181

I. Short notes, answer any TWO questions. 2 X 5 = 10 marks

1. Muscles of facial expression
2. Pituitary gland
3. Facial Nerves

II. Short answers 5 X 3 = 15 marks

4. Nerves supply of tongue
5. Maxilla
6. Name 3 muscles of Mastication
7. Nerve supply of Face
8. Mandible

Subject: General Physiology

Q P CODE: 5182

I. Short notes, answer any TWO questions. 2 X 5 = 10 marks

1. Draw and label pathway of impulse conduction in heart.
2. What is erythropoiesis? Name the stages of erythropoiesis
3. Describe the structure of neuromuscular junction

II. Short answers 5 X 3 = 15 marks

4. Baroreceptor reflexes.
5. Breath sounds.
6. Define vital capacity. Give its normal value
7. Classify blood groups

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Subject: Anatomy

Q P CODE: 5181

I. Short notes, answer any TWO questions. 2 X 5 = 10 marks

1. Trigeminal Nerve
2. Pterygoid muscles
3. Blood supply of face

II. Short answers 5 X 3 = 15 marks

4. Name 3 muscles of Neck
5. Lymphatic drainage of tongue
6. Temporal bone
7. Cartilage types with example
8. Nerves related to mandible

Subject: General Physiology

Q P CODE: 5182

I. Short notes, answer any TWO questions. 2 X 5 = 10 marks

1. Describe the various methods of transport across the cell membrane.
2. What is anemia? Describe different types of anemia
3. Define arterial blood pressure. what is systolic and diastolic blood pressure?

II. Short answers 5 X 3 = 15 marks

4. What is the normal calcium level in blood? Name the hormones required for calcium homeostasis.
5. Enumerate plasma proteins
6. Classify leukocytes
7. Bohr's effect
8. Name the primary taste modalities.

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Q P CODE: 5181

I. Short notes, answer any TWO questions. 2 X 5 = 10 marks

1. Glossopharyngeal Nerve
2. Epithelium
3. Mandible

II. Short answers 5 X 3 = 15 marks

4. Types of Muscles with example
5. Name 3 Nerves of Upper Limb
6. Intercostal muscles
7. Temporal bone
8. Name 3 muscles of lower Limb

Subject: General Physiology

Q P CODE: 5182

I. Short notes, answer any TWO questions. 2 X 5 = 10 marks

1. Name the anterior pituitary hormones Describe the functions of growth hormone
2. Describe the structure of taste bud. Trace the taste pathway.
3. Describe the baroreceptors control the heart rate.

II. Short answers 5 X 3 = 15 marks

4. How much is normal calcium level? Name the hormones influencing it
5. Name Heart sounds
6. Write briefly the importance of blood groups.
7. Name Coagulation factors.
8. Name the contractile proteins present in muscle.

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I. Short notes, answer any TWO questions. 2 X 5 = 10 marks

1. Sternocleidomastoid muscle
2. Tongue
3. Tooth

II. Short answers 5 X 3 = 15 marks

4. Hormones secreted by pancreas
5. Branches of facial Nerve
6. Name 3 muscles of facial expression
7. Maxilla
8. Arteries related to Mandible

Subject: General Physiology

Q P CODE: 5182

I. Short notes, answer any TWO questions. 2 X 5 = 10 marks

1. What is ECG? Enumerate the various various ECG leads with a suitable diagram.
2. Define hemostasis. Describe the steps of hemostasis.
3. Name the hormones secreted by posterior pituitary write their two functions

II. Short answers 5 X 3 = 15 marks

4. Muscle proteins & their functions
5. Fluid mosaic model of cell membrane.
6. List lung volumes and capacities.
7. Name the primary taste modalities
8. List four functions of stomach.

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Subject: General Pathology, Microbiology

Q P CODE: 5183

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. What is tuberculosis? Name the special stain used to confirm?
2. What is AIDS. Write the clinical features ?
3. Name types of leprosy. Add a note on tests done to confirm?
4. Name causes of fungal infection? Add a note on special stains for fungal disease?
5. What is syphilis. Write clinical features of syphilis?

II. Short answers

5 X 3 = 15 marks

6. Name 3 virus causing common cold?
7. Name 3 fungi causing superficial skin infection?
8. What are the clinical features of tuberculosis?
9. What are the investigation done in pathology lab?
10. Name 3 gram positive cocci?

Subject: Pharmacology

Q P CODE: 5184

I.Short notes(Answer any one question)

(1x6=6)

1. What are different routes of drug administration?
2. Classify NSAIDs . Add a note on uses & adverse effect of diclofenac.

II. Short answers

(3x3=9)

3. What are the uses of metronidazole in dentistry?
4. Antiseptic mouth washes
5. Topical route of drug administration.

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Subject: General Pathology, Microbiology

Q P CODE: 5183

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Name common viral infection in children.
2. Name opportunistic fungal infection.
3. What is pneumonia? Write etiology.
4. Write in detail about etiology of tuberculosis.
5. Name different tests done in pathology lab.

II. Short answers

5 X 3 = 15 marks

6. Name gram negative bacteria.
7. What is granuloma.
8. Name 3 complication of pneumonia.
9. Name 3 parasitic disease.
10. Name special stains for various infectious disease.

Subject: Pharmacology

Q P CODE: 5184

I.Short notes(Answer any one question)

(1x6=6)

1. Define Adverse drug reactions? Classify Adverse drug reactions with suitable examples.
2. Enumerate Local anesthetics and add note on Lignocaine

II. Short answers

(3x3=9)

3. Contraindication of doxycycline
4. Name topical glucocorticoids and side effects involving oral cavity
5. Concept of Essential medicine list

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DENTAL HYGIENE**

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Subject: General Pathology, Microbiology

Q P CODE: 5183

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. What is etiopathogenesis of TB lung?
2. What is special stain for mycobacterium tuberculosis? Write a labelled diagram
3. What is HIV. Write a neat diagram of HIV virus?
4. What are the different gram negative bacteria? Add a note on complications?
5. What are the tests done in TB lymphnodes?

II. Short answers

5 X 3 = 15 marks

6. What is leprosy? Write types of leprosy?
7. Gram +ve organism 3 different Bacteria.
8. Name 3 virus causing child hood illness
9. Name 3 infection caused by parasites.
10. Give example for chronic inflammation caused by bacteria?

Subject: Pharmacology

Q P CODE: 5184

I.Short notes(Answer any one question)

(1x6=6)

1. Define sedatives. Write the pharmacological action, side effects and uses in dentistry
2. What are the differnt techniques in administration of local anaesthetics?

II. Short answers

(3x3=9)

3. Define the terms Drug(WHO definition) and pharmacodynamics
4. Management of paracetamol poisoning
5. What are styptics and give examples.

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Subject: General Pathology, Microbiology

Q P CODE: 5183

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. What is AIDS. Name tests done for detection of AIDS?
2. What is pneumonia? Write diagram of causative organisms.
3. What is gram stain? Name 3 diseases caused by gram +ve bacteria?
4. What is syphilis? Write clinical features of syphilis.
5. What are the various tests done in pathology lab?

II. Short answers

5 X 3 = 15 marks

6. Write 3 investigation done for TB-lung?
7. Name 3 fungal disease?
8. Name 3 parasite disease?
9. What are the different types of leprosy?
10. What is AIDS?

Subject: Pharmacology

Q P CODE: 5184

I.Short notes(Answer any one question)

(1x6=6)

1. What are local anaesthetics? Discuss different dosage forms of Lignocaine.
2. Enumerate Glucocorticoids.Add a note on adverse effects of glucocorticoids.

II. Short answers

(3x3=9)

3. Define Pharmacopoeia. Give examples
4. How do you manage NSAID induced peptic ulcer?
5. Why is doxycycline contraindicated in children?

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Subject: General Pathology, Microbiology

Q P CODE: 5183

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Write a neat labelled diagram of HIV.
2. What is etiology of TB lung? Add a note on tests done in TB.
3. What is leprosy? Name different type of Leprosy.
4. What are the various parasitic diseases. Add a note on investigations done.
5. Write various test done in pathology lab for infectious diseases.

II. Short answers

5 X 3 = 15 marks

6. Name 3 new viral infections in adults.
7. Name 3 gram negative bacteria.
8. What are the clinical features of AIDS?
9. Name 3 fungal infection.
10. What are the clinical features of Syphilis?

Subject: Pharmacology

Q P CODE: 5184

I.Short notes(Answer any one question)

(1x6=6)

1. Define Pharmacokinetics. Also add note on first pass metabolism with examples
2. Mention advantages and disadvantages of Intravenous route. Give two examples of sub lingual route.

II. Short answers

(3x3=9)

3. Astringents
4. Management of Diazepam overdose
5. Use and adverse effects of amoxycillin.

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- Subject: Pharmacology** **Q P CODE: 5184**

I.Short notes(Answer any one question)

(1x6=6)

1. Classify Fluoroquinolones and write its uses and adverse effects
2. Preanaesthetic medication

II. Short answers

(3x3=9)

3. Metronidazole in Dentistry
4. Mention 3 uses of styptics with examples
5. Topical preparations of corticosteroids usage in dentistry.

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I.Short notes(Answer any one question)

(1x6=6)

1. Differentiate between intravenous route and oral route
2. Differentiate between tetracycline versus doxycycline

II. Short answers

(3x3=9)

3. Mention 3 uses of styptics
4. Uses of Metronidazole in dentistry
5. Treatment of Hypersensitivity reaction

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- Subject: Pharmacology Q P CODE: 5184**

I.Short notes(Answer any one question)

(1x6=6)

1. Enumerate the therapeutic uses and Adverse effects of Diazepam.
2. Write the Adverse effects of corticosteroids.

II. Short answers

(3x3=9)

3. Pharmacopeias
4. Advantage of sublingual route
5. Topical preparations of NSAIDS

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- Subject: Pharmacology Q P CODE: 5184**

I.Short notes(Answer any one question)

(1x6=6)

1. Write about mechanism of action of Lignocaine, indication for its use and various routes of administration in dentistry.
2. Diclofenac sodium – Write its uses and adverse effects. Add a note on precautions to be taken before administration of NSAIDS.

II. Short answers

(3x3=9)

3. Mention 3 advantages of mouth washes.
4. 3 uses of antibiotics in dentistry.
5. Name 3 drugs given by oral route.

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- Subject: Pharmacology Q P CODE: 5184**

I.Short notes(Answer any one question)

(1x6=6)

1. Mention the various routes of drug administration. Add a note on oral route of drug administration.
2. What is diazepam? Add a note on the uses and adverse effects of diazepam in dentistry.

II. Short answers

(3x3=9)

3. Name 2 uses and 2 adverse effects of glucocorticoids in dentistry.
4. What are styptics? Give 2 examples.
5. Name 3 uses of NSAIDs in dentistry.

**PARAMEDICAL BOARD, BENGALURU
DENTAL HYGIENE**

Time: 1.30 HRS

Max Marks:50

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.**
 - ii) Write neat diagrams wherever necessary, Handwriting should be legible.**
- Subject: Pharmacology Q P CODE: 5184**

I.Short notes(Answer any one question)

(1x6=6)

1. Definition of drug. Add a note on pharmacokinetics and pharmacodynamics of drug.
2. Write in brief about antiseptic mouth washes and gargles

II. Short answers

(3x3=9)

3. Name 3 topical glucocorticoids.
4. Name 3 adverse effects of penicillin antibiotics
5. Name 3 oral analgesic preparations.

PARAMEDICAL BOARD, BENGALURU
DENTAL HYGIENE

Time: 1.30 HRS

Max Marks:50

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
 - ii) Write neat diagrams wherever necessary, Handwriting should be legible.
- Subject: Pharmacology Q P CODE: 5184**

I.Short notes(Answer any one question)

(1x6=6)

1. What is an adverse drug reaction? Add a note on management of hypersensitivity reaction?
2. What is an analgesic? Write about the uses and adverse effects of analgesics?

II. Short answers

(3x3=9)

3. Mention 3 advantages of oral route of drug administration
4. Name 3 antibiotics that can be used after a dental procedure.
5. Name 3 local anaesthetics.

**PARAMEDICAL BOARD, BENGALURU
DENTAL HYGIENE**

Time: 1.30 HRS

Max Marks:50

GENERAL INSTRUCTIONS:

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- ii) Write neat diagrams wherever necessary, Handwriting should be legible.**

Subject: General Biochemistry

Q P CODE: 5185

I. Short notes(Answer any TWO question) (2x5=10)

1. Classify lipids with examples
2. Polysaccharides
3. Factors affecting Enzyme action

II. Short answers (5x3=15)

4. Purines and pyrimidines
5. VLDL Very low density Lipoprotein
6. Test for bile pigments
7. Essential aminoacids
8. Water soluble vitamins

**PARAMEDICAL BOARD, BENGALURU
DENTAL HYGIENE**

Time: 1.30 HRS

Max Marks:50

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.**
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.**

Subject: General Biochemistry

Q P CODE: 5185

I. Short notes(Answer any TWO question)

(2x5=10)

1. Classify enzymes with examples
2. Classify plasma proteins with reference values
3. Formation of Urea

II. Short answers

(5x3=15)

4. Polysaccharides
5. DNA
6. Abnormal constituents of urine
7. Isoenzymes
8. Transamination

PARAMEDICAL BOARD, BENGALURU
DENTAL HYGIENE

Time: 1.30 HRS

Max Marks:50

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
 - ii) Write neat diagrams wherever necessary, Handwriting should be legible.
- Subject: General Biochemistry** **Q P CODE: 5185**

I. Short notes(Answer any TWO question) (2x5=10)

1. Classify aminoacids with examples
2. Isoenzymes
3. Polysaccharides

II. Short answers (5x3=15)

4. RNA
5. Abnormal constituents of urine
6. Deamination of amino acids
7. Lipoproteins
8. Water soluble vitamins

PARAMEDICAL BOARD, BENGALURU
DENTAL HYGIENE

Time: 1.30 HRS

Max Marks:50

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.**
 - ii) Write neat diagrams wherever necessary, Handwriting should be legible.**
- Subject: General Biochemistry** **Q P CODE: 5185**

I. Short notes(Answer any TWO question) (2x5=10)

1. Classify carbohydrates with examples
2. Lipoproteins
3. Isoenzymes

II. Short answers (5x3=15)

4. Water soluble vitamins
5. Factors affecting enzyme action
6. List three minerals with normal serum values
7. Transamination
8. Test for bile salts

**PARAMEDICAL BOARD, BENGALURU
DENTAL HYGIENE**

Time: 1.30 HRS

Max Marks:50

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.**
 - ii) Write neat diagrams wherever necessary, Handwriting should be legible.**
- Subject: General Biochemistry Q P CODE: 5185

I. Short notes(Answer any TWO question) (2x5=10)

- 1. Draw a neat labeled diagram DNA and describe about it.
- 2. Classify enzymes with examples.
- 3. Write about physical and chemical characteristic features of abnormal constituents of urine.

II. Short answers (5x3=15)

- 4. Name sulfur containing amino acids. Define transmethylation reaction with one reaction.
- 5. Write briefly about starch and glycogen.
- 6. Reference values of – a) Fasting Blood Sugar
 - b) Blood Urea
 - c) Serum Creatinine
- 7. Write about biochemical functions of vitamin-K.
- 8. Classify lipids with examples.

PARAMEDICAL BOARD, BENGALURU
DENTAL HYGIENE

Time: 1.30 HRS

Max Marks:50

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.**
 - ii) Write neat diagrams wherever necessary, Handwriting should be legible.**
- Subject: General Biochemistry** **Q P CODE: 5185**

I. Short notes(Answer any TWO question) (2x5=10)

- 1. Classify amino acids with examples.
- 2. What are enzyme inhibitors? Name them.
- 3. Write the sources biochemical functions and disorders of vitamin-C

II. Short answers (5x3=15)

- 4. What are the plasma proteins? How they are separated?
- 5. What are nucleosides and nucleotides?
- 6. Name the tests to detect proteins and blood in urine and write the procedure.
- 7. Write briefly about iron absorption.
- 8. Define protein energy malnutrition. What are the types?

**PARAMEDICAL BOARD, BENGALURU
DENTAL HYGIENE**

Time: 1.30 HRS

Max Marks:50

GENERAL INSTRUCTIONS:

- i) **The question paper has two parts A and B. Both the parts are compulsory.**
 - ii) **Write neat diagrams wherever necessary, Handwriting should be legible.**
- Subject: General Biochemistry Q P CODE: 5185

I. Short notes(Answer any TWO question) (2x5=10)

- 1. What are the functions of lipids? Classify lipids with examples.
- 2. Name any five clinically important isoenzymes with their reference values.
- 3. Write briefly the sources, RDA, biochemical functions and deficiency manifestations of iron.

II. Short answers (5x3=15)

- 4. What are the functions of albumin?
- 5. Name any two disaccharides and their sources.
- 6. Draw a neat diagram of DNA and label the parts.
- 7. Define essential fatty acids and name them.
- 8. Define essential and non essential amino acids.

PARAMEDICAL BOARD, BENGALURU
DENTAL HYGIENE

Time: 1.30 HRS

Max Marks:50

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: General Biochemistry

Q P CODE: 5185

I. Short notes(Answer any TWO question) (2x5=10)

- 1. Define nucleic acid. Enumerate the difference between DNA and RNA.
- 2. Describe the sources, biochemical functions and deficiency manifestations of vitamin – A
- 3. Define phospholipids. Describe in detail about any two phospholipids.

II. Short answers (5x3=15)

- 4. Define anomers and epimers with relevant example.
- 5. Write briefly about starch and inulin.
- 6. Fluorosis
- 7. Dietary fibre.
- 8. Classify amino acids based on metabolic fate.

