

FIRST BDS DEGREE EXAMINATION

PAPER – I - GENERAL HUMAN ANATOMY INCLUDING EMBRYOLOGY AND HISTOLOGY

Time: 3 hrs

Total marks: 100

- Answer all questions
- Draw diagrams wherever necessary

Essay (14×2=28)

1. Explain the facial nerve under following headings:
 - a) Functional components
 - b) Nuclei
 - c) Branches
 - d) Distributions
 - e) Applied anatomy(2+2+2+3+3+2)
2. Describe cavernous sinus in detail under the following headings:
 - a) Relations
 - b) Communications
 - c) Tributaries
 - d) Applied aspects(3+3+3+3+2)

Short Essays (8×4=32)

3. Describe temporomandibular joint in detail
 - a) Articular surfaces
 - b) Ligaments
 - c) Relations
 - d) Movements & muscles causing movements(2+2+2+2)
4. Derivatives of branchial arches in detail with diagrams (6+2)
5. Explain posterior triangle under the following headings:
 - a) Boundaries
 - b) subdivisions
 - c) Contents(2+2+4)
6. Explain the muscles of mastication under following headings:
 - a) Origin
 - b) insertion
 - c) nerve supply
 - d) actions(2+2+2+2)

Short notes (4×10=40)

7. Lacrimal apparatus
8. Maxillary artery
9. Microscopic structure of skin
10. Atlas
11. Internal jugular vein
12. Otic ganglion
13. Soft palate
14. Sulci & gyri of superolateral surface of cerebrum
15. Klinefelter's syndrome
16. Ansa cervicalis

FIRST BDS DEGREE EXAMINATIONS

PAPER – II - GENERAL PHYSIOLOGY & BIOCHEMISTRY

SECTION A – PHYSIOLOGY

Time: 3hrs

Total Marks: 100

Essay:

1. Define blood pressure. What are the types of BP. Describe the long term, short term and intermediate regulation of BP. (2+2+5+3+2 = 14)

Short Essays:

2. List any two sensory pathways. Explain the pathway for pain with the help of a neat labelled diagram . (2+6=8)
3. Name the Hyperglycemic hormones. Describe the action of Insulin on blood glucose level. (2+6=8)

Short notes:

4. Hypoxia
5. Anticoagulants.
6. Degeneration.
7. Contraction cycle.
8. Refractive Errors. (4x5=20)

SECTION B – BIOCHEMISTRY

Essay:

1. Define gluconeogenesis. What is its importance. What are the precursors of glucose. State the steps involved in gluconeogenesis with a special notes on its regulation. (1+2+2+6+3= 14)

Short essays:

2. Describe the classification of proteins with examples. Add a note on plasma protein. (5+3= 8)
3. Describe the Metabolism and biological features of Vitamin D (4+4=8)

Short notes:

4. Fatty liver
5. Clearance test
6. BMR
7. Metabolic acidosis
8. Diagnostic enzymes (5x4=20)

FIRST BDS DEGREE EXAMINATION

PAPER – III - DENTAL ANATOMY INCLUDING EMBRYOLOGY & HISTOLOGY

Time: 3 hrs

Total marks: 100

- Answer all questions
- Draw diagrams wherever necessary

Essay: (14×2=28)

1. Describe in detail the anatomy of permanent maxillary first premolar with neat diagrams. Add a note on its chronology of development. (9+3+2)
2. Enumerate the stages in the development of tooth. Describe the bell stage of tooth development with diagrams (3+8+3)

Short Essays: (8×4=32)

3. Explain in brief the principal fibres of periodontal ligament with diagrams. (5+3)
4. Explain the mechanisms of dentinal hypersensitivity with neat labelled diagrams (6+2)
5. Explain the life cycle of ameloblasts with diagrams (5+3)
6. Explain briefly the structure of keratinized epithelium with a note on non keratinocytes (4+2+2)

Short notes: (4×10=40)

7. Embrasures
8. Peritubular dentin
9. Bundle bone
10. Hunter Schreger bands
11. Structure of myoepithelial cell
12. Dead tracts
13. Pulp stones
14. Composition of saliva
15. Odontoclasts
16. Dental lamina

SECOND BDS DEGREE EXAMINATIONS

PAPER – I - GENERAL PATHOLOGY & MICROBIOLOGY

Time: 3 hrs

Total marks: 100

- Answer all questions
- Draw diagrams wherever necessary

SECTION A – PATHOLOGY

Essay:

1. Define leukemia. How acute leukemia is classified. What are the peripheral smear and bone marrow findings in chronic myeloid leukemia? (2+6+3+3=14)

Short Essays:-

2. Define wound healing. Explain the steps of wound healing. (2+6= 8)
3. Define anemia. What are the causes, clinical features and laboratory diagnosis of iron deficiency anemia? (2+2+2+2= 8)

Short Notes:

4. Inflammation
5. Pathogenesis and fate of Thrombus
6. Apoptosis and Necrosis
7. Classification and complication of diabetes Mellitus
8. Diseases caused by fungi. (5x4= 20)

SECTION A – MICROBIOLOGY

Essay:

1. Give an account of classification and pathogenicity of streptococci. Add a note on cariogenic streptococci. (5+5+4= 14)

Short Essays:-

2. Describe the structure of IgG molecule. Write a note on its function (5+3 = 8)
3. Write a note on structure of Virus. Describe the methods used for cultivation of viruses (4+4= 8)

Short Notes:-

4. Gas gangrene
5. Lab diagnosis of AIDS
6. Antibiotic resistance.
7. Candidiasis
8. Classical Pathway of complement activation (5x4= 20)

SECOND BDS DEGREE EXAMINATION

PAPER – II - GENERAL & DENTAL PHARMACOLOGY & THERAPEUTICS

Time: 3 hrs

Total marks: 100

- Answer all questions
- Draw diagrams & flow charts wherever necessary

Long Essay: (14×2=28)

1. Write detailed classification about antidiabetic drugs, enumerate details about the mechanism of type 2 anti diabetics, also write CI of antidiabetic drugs? (5+7+2)
2. Write the details about the pharmacokinetic parameter, including its definition, also write various factors affecting the pharmacokinetic parameters? (5+2+7)

Short Essays: (8×4=32)

3. Explain in briefly how to prevent fluoride toxicity, describe how to prevent dental caries, also write any one anticaries agents & its mechanism? (3+3+2)
4. Classify NSAID's also write its Mechanisms of action? (5+3)
5. Explain the classification of Anthelminths; also write drugs used for nematodes including its mechanism of action & adverse effects? (3+5)
6. Mentions the classification of anti anginal drugs also write its mechanism of action ADR & CI? (3+5)

Short notes: (4×10=40)

7. Why all ACE inhibitors are CI (contra indicated) in pregnancy?
8. Explain the drug of choice for shock also write its mechanism?
9. Which is the adrenergic drug used for stress testing also write its mechanism behind it?
10. Which is the drug of choice for ADHD also mention the name of the drug its mechanism?
11. Which is the drug of choice for pregnancy induced hyper tension also mention the mechanism?
12. What is epidural anaesthesia also mentions its uses, also mentions briefly about spinal anaesthesia?
13. Write briefly explain Antithrombolytics or Antifibrinolytics drugs?
14. Write briefly explain about Narcolepsy also mention one drug used for narcolepsy?
15. Mention one adrenergic antagonist & its mechanism used for BHP, also mention two alpha reductase inhibitors used for BHP?
16. Write briefly explain the uses of sulphonamides & tetracycline?

SECOND BDS DEGREE EXAMINATIONS

PAPER – III - DENTAL MATERIALS

Time: 3hrs

Total Marks: 100

SECTION A – PROSTHODONTICS

Essay:

1. Classify Gypsum products. Write in detail about the setting mechanism of gypsum. add a note on accelerators and retarders. (3+7+4=14)

Short essays:

2. Define a ceramic. Write in detail about the composition and classification of dental ceramics. (2+6=8)
3. Enumerate the desirable properties of inlay casting wax. Describe in detail the composition and manipulation of the same. (3+5=8)

Short notes:

4. Color parameters
5. Polymerization cycle of heat cure resin.
6. Casting alloys.
7. Composition of Zinc Oxide impression paste.
8. Hardness tests. (5x4=20)

SECTION B – CONSERVATIVE DENTISTRY

Essay:

1. Define, classify and write on the composition, role of ingredients of dental amalgam. Describe in detail “**high copper**” dental amalgam. Add a note on mercury toxicity. (1+2+3+1+5+2=14)

Short Essays:

2. Classify dental cements. Write briefly about Zinc Phosphate cements (2+6=8)
3. Classify composite resins. Write briefly on microfill composites (2+6=8)

Short notes:

4. Nitinol
5. Dual cure polyalkeonate cements
6. Rake angle
7. Stepping and Banking
8. Hybrid layer (5x4=20)
