

Rajiv Gandhi University of Health Sciences

I B.D.S Degree Examination – June / July 2011

Time: 3 Hrs.

[Max. Marks: 100]

HUMAN ANATOMY INCLUDING EMBRYOLOGY & HISTOLOGY (RS & RS2)

QP Code: 1151

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Describe the parotid gland under the following headings:
 - a) Parts and features
 - (b) Relations
 - (c) Structures within the gland
 - (d) Applied aspects
2. Describe the temporo mandibular joint under the following headings
 - a) Bones forming
 - (b) Capsule and ligaments
 - (c) Relations
 - (d) Movements and muscles producing them
 - (e) Applied aspects

SHORT ESSAY

10 X 5 = 50 Marks

3. Boundaries and contents of infra temporal fossa
4. Histology of pituitary gland
5. Sub – mandibular ganglion
6. Trigeminal ganglion
7. Development of palate and anomalies
8. Age changes in mandible
9. Ansa cervicalis
10. Thyroid cartilage
11. Auditory tube
12. External jugular vein

SHORT ANSWERS

10 X 3 = 30 Marks

13. Branches of external carotid artery in the carotid triangle
14. Effects of fertilization
15. Falx cerebri – attachments and sinuses within it
16. Openings in the middle meatus of nose
17. Sphenoidal air sinuses
18. Draw a neat labeled diagram of mature graaffian follicle
19. Mastoid process
20. Enumerate the structures passing between middle and inferior constrictor muscles of pharynx
21. Enumerate branches of nasociliary nerve
22. Supra sternal space of Burns

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HUMAN PHYSIOLOGY & BIOCHEMISTRY (RS & RS2)

Your answer shall be specific to question asked. Draw neat and labelled diagrams wherever necessary. **Use separate answer books for section A and section B.**

QP Code: 1152 - Section A - HUMAN PHYSIOLOGY [60 Marks]

LONG ESSAY

1 X 10 = 10 Marks

1. Explain the phases of Gastric juice secretion with experimental evidences

SHORT ESSAY

7 X 5 = 35 Marks

2. Describe the functions of Thyroxine
3. With a neat diagram explain the taste pathway
4. Explain different refractive errors. How do you correct these errors?
5. What is referred pain? Explain two theories of referred pain
6. Give a simple classification of anemia based upon the cause and explain each type of anemia
7. What are the functions of platelets?
8. With a neat diagram explain the action potential

SHORT ANSWERS

5 X 3 = 15 Marks

9. Draw and label Electrocardiogram (ECG) recording in lead II
10. Define Landsteiner's law
11. Define cyanosis
12. Draw a diagram of juxta Glomerular apparatus and mention its functions
13. Name three diseases of Basal Ganglia

QP Code: 1153 - Section B - BIOCHEMISTRY [40 Marks]

Use separate answer book

LONG ESSAY

1 X 10 = 10 Marks

1. Explain Beta – oxidation of palmitic acid with energetics

SHORT ESSAY

3 X 5 = 15 Marks

2. Urea cycle
3. Significance of HMP shunt pathway
4. Vit - D deficiency disorders

SHORT ANSWERS

5 X 3 = 15 Marks

5. Dietary fibre
6. Invert sugar
7. Name the plasma lipoproteins and their functions
8. Normal values of (a) Serum calcium (b) Serum creatinine (c) Blood urea
9. Nutritional classification of amino acids

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DENTAL MATERIALS (RS & RS2)

QP Code: 1154

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Classify hydrocolloids? Write the composition and manipulation of irreversible hydrocolloids. Add a note on disinfection of irreversible hydrocolloid and its latest advancements
2. Classify metal ceramic alloys? What are the ideal requirements of metal ceramic alloys? Mention the different factors which help in bringing an effective bond between the ceramic and metal? Add a note on recent ceramics

SHORT ESSAY

10 X 5 = 50 Marks

3. Newer developments of glass ionomer cement
4. Soldering technique
5. Porosities in dental casting
6. Causes and prevention of wax distortion
7. Types of corrosion
8. Sensitization and stabilization of stainless steel
9. Condensation and polishing of gold foil
10. Mercury hygiene and precautions to be taken while handling them
11. Porosity and its effects on denture base resins
12. Evaluation of toxicity of dental materials

SHORT ANSWERS

10 X 3 = 30 Marks

13. Proportional limit
14. Dental stone
15. Wet field technique
16. Separating media and its uses
17. Eames technique
18. Reservoir
19. Soldering flame
20. Pulp capping agents
21. Pumice
22. Gamma 1 phase

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