

Rajiv Gandhi University of Health Sciences

I B.D.S Degree Examination – June/July 2009

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 relations, blood supply and lymphatic drainage of thyroid gland
2. Describe the temporo mandibular joint in relation to location, articulating surfaces, articular disc, ligaments movements and muscles producing movements

SHORT ESSAY

10 X 5 = 50 Marks

3. Otic Ganglion
4. Hyoid bone
5. Histology of pituitary gland
6. Maxillary process of embryo
7. Sub mandibular salivary gland
8. Facial artery in the face
9. Internal jugular vein
10. Derivatives of I branchial arch
11. Orbicularis oris
12. Vocal cord

SHORT ANSWERS

10 X 3 = 30 Marks

13. Median raphe of mylohyoid muscle
14. Cleft lip
15. Development of Tongue
16. Relations of posterior belly of digastric muscle
17. Branches of Ophthalmic nerve
18. Structure of taste bud
19. Nerve supply of scalp – Posterior Quadrant
20. Superior meatus of nose
21. Symphysis menti
22. Transverse sinus

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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. Define Erythropoiesis. Describe the cellular changes involved and factors regulating it

SHORT ESSAY

7 X 5 = 35 Marks

2. What is intrapleural pressure? Give its normal value. What is its role in respiration?
3. Give the actions of insulin and adrenaline on blood sugar level
4. Draw and label the parts of a taste bud
5. List the stimulants of HCl secretion. Give their mode of action
6. What are heart sounds? Describe their cause
7. How is cardiac output measured using Fick's principle?
8. Compare refractory period in skeletal and cardiac muscle

SHORT ANSWERS

5 X 3 = 15 Marks

9. Sertoli cells
10. Juxta medullary nephrons
11. Tetany
12. Secretin
13. Axon reflex

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

Use separate answer book

LONG ESSAY

1 X 10 = 10 Marks

1. Describe the hexose monophosphate shunt pathway. What is its importance?

SHORT ESSAY

3 X 5 = 15 Marks

2. Name four factors which affect an enzyme catalysed reaction. Discuss any one in detail
3. Name the essential fatty acids. What is their dietary importance?
4. Write briefly on the structure and function of hemoglobin. Name one abnormal Hb

SHORT ANSWERS

5 X 3 = 15 Marks

5. Name the fat soluble vitamins
6. How does starch differ from glycogen?
7. What is the normal serum level of
 - a) Urea
 - b) Glucose
 - c) Cholesterol
8. What is Balanced diet?
9. What is the importance of fluoride in dentistry?

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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. Discuss the properties of silver amalgam restorative material
2. Classify impression materials; discuss agar impression material

SHORT ESSAY

10 X 5 = 50 Marks

3. Resin cement
4. Gypsum bonded investment
5. Chrome cobalt alloys
6. Back pressure porosity
7. Compare Wrought and cast alloys
8. Composition of impression compound
9. Manipulation of inlay wax
10. Condensation of porcelain
11. Pit and fissure sealant
12. Temporary denture base materials

SHORT ANSWERS

10 X 3 = 30 Marks

13. Slurry water
14. Tray adhesives
15. Metal ceramic restoration
16. Elastic limit
17. Setting time of gypsum products
18. Endodontic materials
19. Maxillofacial prosthetic materials
20. Diamond abrasive
21. Dentifrices
22. Zinc polycarboxylate cement

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