

# Rajiv Gandhi University of Health Sciences

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

Time: 3 Hrs.

[Max. Marks: 70]

## HUMAN ANATOMY INCLUDING EMBRYOLOGY OSTEOLOGY & HISTOLOGY

**(RS3)**

QP Code: 1178

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 Lateral wall of the nasal cavity under the following headings: (2+4+2+2)
  - a) Bones & cartilages forming
  - b) Specific features
  - c) Blood supply and nerve supply
  - d) Applied aspects
2. Describe the maxillary nerve under the following headings: (5+3+2)
  - a) Course and relations
  - b) Branches
  - c) Applied aspect

### SHORT ESSAY

**8 X 5 = 40 Marks**

3. Cavernous sinus – situation, communication and tributaries
4. Somites and their derivatives
5. Vocal cords – attachment and movements
6. Histology of the pituitary gland
7. Internal Jugular vein - formation , termination and tributaries
8. Development of thyroid gland and associated anomalies
9. Superior cervical ganglion - situation and branches
10. Scalenus anterior – attachment and relations

### SHORT ANSWERS

**5 X 2 = 10 Marks**

11. Name the structures constituting Lacrimal apparatus
12. Draw labeled diagram of histology of Trachea
13. Name the boundaries of Suboccipital triangle
14. Name the 3 features of synovial joint
15. Auditory tube - extent and function

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## GENERAL HUMAN PHYSIOLOGY & BIOCHEMISTRY, NUTRITION & DIETICS 1179 & 1180 (RS3)

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: 1179 - Section A - HUMAN PHYSIOLOGY [35 Marks]

#### LONG ESSAY

1 X 10 = 10 Marks

1. Define blood pressure? Describe the role of baroreceptors and hormones in regulating blood pressure

#### SHORT ESSAY

3 X 5 = 15 Marks

2. Describe the Carbon dioxide transport in the blood? Add a note on Haldane's effect
3. List five functions of Hypothalamus? Explain any one of them
4. Describe the synthesis and functions of Thyroid Hormone

#### SHORT ANSWERS

5 X 2 = 10 Marks

5. Name the contractile proteins of the skeletal muscle
6. What is the normal range of sperm count? What is sterility
7. What are the functions of Juxta glomerular apparatus of the Kidney
8. Define "all or none law" in a neuron
9. Name four errors of refraction

### QP Code: 1180 - Section B – BIOCHEMISTRY, NUTRITION & DIETICS [35 Marks]

**Use separate answer book**

#### LONG ESSAY

1 X 10 = 10 Marks

1. What are ketone bodies? Explain how they are formed and utilized. Add a note on ketoacidosis

#### SHORT ESSAY

3 X 5 = 15 Marks

2. Explain the digestion and absorption of different dietary carbohydrates
3. Give an account of chemistry. Sources, dietary requirements and functions of folic acid in our body
4. What are enzymes? Classify them giving one reaction with name of the enzyme for each class

#### SHORT ANSWERS

5 X 2 = 10 Marks

5. Liver function tests
6. What is phenylketonuria? Write the important features of phenylketonuria
7. Name any four special compounds derived from Tyrosine
8. Give an account of absorption of Iron from dietary sources
9. What is Nitrogen balance? Give one example each for positive and negative nitrogen balance

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## HUMAN ORAL & DENTAL ANATOMY, EMBRYOLOGY, PHYSIOLOGY & HISTOLOGY

(RS-3)

QP Code: 1181

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

### LONG ESSAY

2 X 10 = 20 Marks

1. Classify oral mucous membrane and describe the clinical and histological appearance of gingiva in detail
2. Describe the morphology of mandibular second premolar

### SHORT ESSAY

8 X 5 = 40 Marks

3. Dentinogenesis
4. Maxillary sinus
5. Theories of Dentin sensitivity
6. Morphology of crown of permanent maxillary canine
7. Cells of periodontal ligament
8. Differences between permanent maxillary central incisor and permanent maxillary lateral incisor
9. Serous and mucous cells
10. Deglutition

### SHORT ANSWERS

5 X 2 = 10 Marks

11. Leeway space of Nance
12. Odontoclasts
13. Xylene
14. Buffering action of saliva
15. Derivatives of first and second brachial arches

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