

# Rajiv Gandhi University of Health Sciences

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

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 Parotid gland under the following headings.
 

a) Situation and coverings	b) Parts and relations	
c) Blood supply	d) Applied anatomy	(2+3+3+2)
2. Describe the temporo mandibular joint under the following heads:
 

a) Articulating surfaces & bones	(b) Ligaments and capsule of the joint	c) Articular disc	(d) Blood supply & nerve supply	(e) Movements & mechanism	(1+4+1+1+3)
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### SHORT ESSAY

**8 X 5 = 40 Marks**

3. Histology of the palatine tonsil.
4. Carotid sheath.
5. Vocal cord.
6. Superior sagittal sinus.
7. Development of tongue.
8. Masseter muscle
9. Course of facial artery & it's branches in the face
10. Applied anatomy of the scalp

### SHORT ANSWERS

**5 X 2 = 10 Marks**

11. Ansa cervicalis
12. Middle meatus of nose
13. Formation of external jugular vein
14. Types of papillae over the tongue
15. Suboccipital muscles

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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. Describe the functions and regulation of secretion of growth hormone. Add a note on Acromegaly

### SHORT ESSAY

3 X 5 = 15 Marks

2. Describe fate of haemoglobin following Haemolysis
3. Describe with help of a diagram the pressure & volume changes in ventricles during cardiac cycle
4. Where are peripheral chemoreceptors present? What is their role in regulation of respiration

### SHORT ANSWERS

5 X 2 = 10 Marks

5. What is Myopia? How is it corrected
6. What is the physiologic basis for pregnancy tests
7. Name the different types of movement of small intestine
8. Define inulin clearance. What is its significance
9. Define the terms Rheobase and Chronaxie

QP Code: 1180 - Section B – BIOCHEMISTRY, NUTRITION & DIETICS

[35 Marks]

**Use separate answer book**

### LONG ESSAY

1 X 10 = 10 Marks

1. Classify enzymes giving suitable examples for each class. Add a note on enzyme specificity.

### SHORT ESSAY

3 X 5 = 15 Marks

2. Functions of Vitamin A.
3. Enzymes of lipid digestion.
4. Cori's cycle.

### SHORT ANSWERS

5 X 2 = 10 Marks

5. Enumerate the general features of genetic code.
6. Define and mention all the essential aminoacids.
7. Biologically important derivatives of cholesterol.
8. Define clearance and mention the normal values of creatinine clearance rate.
9. Alkaptonuria – Defect and biochemical changes.

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[Max. Marks : 70]

## **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. Describe in detail the morphology of permanent maxillary canine
2. Classify oral mucous membrane. Write in detail the macro and microscopic features of Gingiva

### **SHORT ESSAY**

**8 X 5 = 40 Marks**

3. Advanced bell stage of tooth development
4. Functions of Pulp
5. Striated duct
6. Age change in dentin
7. Nonkeratinocytes
8. Occlusal aspect of permanent maxillary first molar
9. Differences between deciduous and permanent teeth
10. Factors affecting calcium metabolism in the body

### **SHORT ANSWERS**

**5 X 2 = 10 Marks**

11. Circumvallate papilla
12. Howships lacunae
13. Curve of spee
14. Lateral pterygoid
15. Epithelial rests

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