

# Rajiv Gandhi University of Health Sciences

I B.D.S Degree Examination – July 2008

Time: 3 Hrs.

[Max. Marks: 70]

## HUMAN ANATOMY INCLUDING EMBRYOLOGY & HISTOLOGY (Old Scheme)

### QP Code: 1101

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 Temporomandibular joint
2. Describe the cavernous sinus in detail and give its applied anatomy

#### SHORT ESSAY

**6 X 5 = 30 Marks**

3. Muscles of larynx
4. Extra cranial distribution of facial nerve
5. Microanatomy of thin skin
6. Constrictors of pharynx
7. Development of palate
8. Development of pituitary gland

#### SHORT ANSWERS

**10 X 2 = 20 Marks**

9. Vertebral arteries
10. Lacrimal gland
11. Neuro biotaxis
12. Structures passing through jugular foramen
13. Articular disc of temporomandibular joint (mention the parts)
14. Internal auditory meatus
15. Terminal branches of inferior alveolar nerve
16. Carotid sheath (mention the contents)
17. Functional components of oculomotor nerve
18. Frontonasal process of embryo

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## Human Physiology and Biochemistry (Old scheme)

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 : 1102 - Section A : Human Physiology [40 marks]

### LONG ESSAY

1 X 10 = 10 Marks

1. Name the hormones of anterior pituitary gland. Describe the actions and regulation of secretion of growth hormone

### SHORT ESSAY

4 X 5 = 20 Marks

2. Name the plasma proteins and describe their functions
3. Name the bile salts and describe their functions
4. Describe the refractory errors of the eye and how they are corrected
5. Name the descending tracts of the spinal cord. Trace the course of cortico spinal tract

### SHORT ANSWERS

5 X 2 = 10 Marks

6. Mention the enzymes of pancreatic juice
7. Mention two tests done in persons with haemorrhagic disorder
8. Name the specialized conducting tissues of the heart
9. Name two gastro intestinal hormones acting on pancreas
10. Name the lung volumes and capacities

QP Code : 1103 - Section B : Bio-Chemistry [30 marks]

### LONG ESSAY

1 X 8 = 8 Marks

1. Describe urea cycle

### SHORT ESSAY

3 X 4 = 12 Marks

2. Classify amino acids with example
3. Clinically important transaminases
4. Lipo proteins and its functions

### SHORT ANSWERS

5 X 2 = 10 Marks

5. What are the hormones which increases the blood sugar level?
6. What is fatty liver and give example for lipotropic substances
7. Name the sulphur containing amino acids
8. What are Isoenzymes? Give two example
9. Name the various ATP sites in the respiratory chain

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## DENTAL MATERIALS (Old Scheme)

QP Code: 1104

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Draw neat labeled diagrams wherever necessary.

### LONG ESSAY

2 X 10 = 20 Marks

1. Describe the casting procedure in detail for a gold casting from preparation of the wax pattern on the die upto recovery of the casting from the mold
2. What is biocompatibility? Describe the biological considerations of dental materials

### SHORT ESSAY

6 X 5 = 30 Marks

3. Galvanism
4. Thermal expansion of investment
5. Acid etch technique
6. Compomer
7. High copper silver alloy
8. Annealing

### SHORT ANSWERS

10 X 2 = 20 Marks

9. Glazing of porcelain
10. Advantages of Elastomers
11. Trituration
12. Electro formed dies
13. Cavity bases
14. Bonding agents
15. High fusing alloys
16. Stainless steel
17. Chemically activated composite
18. Gamma I phase

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