

# Rajiv Gandhi University of Health Sciences

I B.D.S Degree Examination – December 2010

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 pharynx under the following headings:  
a) Extent      b) Relations      c) Subdivisions      d) Blood Supply      e) Nerve supply
2. Describe the scalp under the following headings:  
a) Extent      b) Layers      c) Blood supply      d) Nerve supply      e) Applied Anatomy

### SHORT ESSAY

10 X 5 = 50 Marks

3. Hyoid bone
4. Trigeminal ganglion
5. Development of tonsil
6. Histology of pancreas
7. Articular disc of temporomandibular joint
8. Buccinator muscle
9. Veins of face
10. Lingual nerve
11. Lymphatic drainage of tongue
12. Metopic suture

### SHORT ANSWERS

10 X 3 = 30 Marks

13. Zygomatic arch
14. Infrahyoid muscle
15. Chorion
16. Nasal septum
17. Lateral pterygoid muscle
18. Internal jugular vein
19. Ciliary ganglion
20. Muscles attached to styloid process
21. Straight venous sinus
22. Digastric muscle

\* \* \* \* \*

# Rajiv Gandhi University of Health Sciences

I B.D.S Degree Examination – December 2010

Time: 3 Hrs.

[Max. Marks : 100]

## 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. Describe the structure of the Adrenal cortex. Name the hormones secreted by it. Discuss the function of any one of them

#### SHORT ESSAY

7 X 5 = 35 Marks

2. Trace the pathway for crude touch
3. Discuss the role of vagus on the heart
4. Is Eupnea voluntary or involuntary? How is it brought about?
5. Give the functions of platelets
6. Define reflex action and describe Babinski sign
7. Describe entero hepatic circulation of bile salts
8. Name the three main protein fractions of plasma. Give the function of any one of them

#### SHORT ANSWERS

5 X 3 = 15 Marks

9. Dwarfism versus cretinism
10. Cystometrogram
11. P-R interval
12. Marey's law
13. Chelating agents

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

Use separate answer book

#### LONG ESSAY

1 X 10 = 10 Marks

1. Describe  $\beta$ -oxidation of palmitic acid. How many ATP's are produced by the complete oxidation?

#### SHORT ESSAY

3 X 5 = 15 Marks

2. What is 'S-Adenosyl methionine (SAM)? How is it formed and what is its importance?
3. What is the normal serum calcium level? Write briefly on the role of calcium in the body
4. What are Immunoglobulins?

#### SHORT ANSWERS

5 X 3 = 15 Marks

5. What are essential amino acids?
6. Classify Lipids, giving one example each
7. What is calorific value?
8. Name the vitamin which have antioxidant properties
9. Name one reducing and one non-reducing disaccharide

\* \* \* \* \*

# Rajiv Gandhi University of Health Sciences

I B.D.S Degree Examination – December 2010

Time: 3 Hrs.

[Max. Marks : 100]

## 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. Define setting time of gypsum products Mention and explain different methods of measuring setting time Add a note on theories of setting time and disinfection of gypsum products
2. Name the various anterior esthetic restorative materials used Write the composition, properties and manipulation of hybrid composite. Add a note on sandwich technique

### SHORT ESSAY

**10 X 5 = 50 Marks**

3. Tissue conditioners
4. Injection molding technique
5. Manipulation of amalgam alloy
6. Annealing and its purpose
7. Denture base materials
8. 18-8 stainless steel
9. Galvanic corrosion
10. Casting defects
11. Properties of dental solder
12. Condensation of dental porcelain

### SHORT ANSWERS

**10 X 3 = 30 Marks**

13. Pickling
14. Contact angle and its significance
15. Glazing of dental porcelain
16. Glass cermet cement
17. Thermal insulating base
18. Strain hardening
19. Delayed expansion
20. Sticky wax
21. Laminate technique
22. Coefficient of thermal expansion

\* \* \* \* \*