

Rajiv Gandhi University of Health Sciences

I B.D.S Degree Examination – February 2007

Time: 3 Hrs.

[Max. MARKS : 70]

DENTAL MATERIALS (Old Scheme)

QP Code: 1104

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

LONG ESSAY

2 X 10 = 20 Marks

1. Enumerate tooth color restorative materials. Write down classification of composite resin with their advantages and disadvantages.
2. What are the ideal requirements of impression materials? Write composition, setting reaction, and uses of zinc oxide eugenol impression paste.

SHORT ESSAY

6 X 5 = 30 Marks

3. Blue inlay wax
4. Gypsum bonded investment material
5. Die materials
6. Hardness test
7. Cross linking agents
8. Plasticizers

SHORT ANSWERS

10 X 2 = 20 Marks

9. Filler
10. Soldering
11. Annealing
12. Condensation polymerization
13. Strength
14. Stages of monomer-polymer reaction
15. Cavity liner
16. Ring liner
17. Pickling
18. Polishing

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Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination – February 2007

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. Explain the extraocular muscles of the eyeball under the following headings- origin, insertion, nerve supply and actions.
2. Classify the dural venous sinuses. Describe the relations, tributaries and connections of the cavernous sinus.

SHORT ESSAY

6 X 5 = 30 Marks

3. Enumerate the boundaries and contents of the posterior triangle.
4. Give the formation and distribution of Ansa cervicalis.
5. Name the structures passing through the foramen magnum.
6. Mention the derivatives of second branchial arch.
7. Explain the microanatomy of the thymus with the help of a diagram.
8. Give the attachments, nerve supply and actions of sternocleidomastoid muscle.

SHORT ANSWERS

10 X 2 = 20 Marks

9. Name the papillae on the tongue.
10. Name the arteries supplying the thyroid gland.
11. Name the contents of the carotid sheath.
12. Name the paranasal air sinuses opening into the middle meatus of nose.
13. Mention any two branches of external carotid artery.
14. Mention any two structures pierced by the parotid duct.
15. Name the muscles supplied by the inferior alveolar nerve.
16. Name the layers of the scalp.
17. Mention the sinuses related to the falx cerebri.
18. Give the development of superior parathyroid gland.

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Rajiv Gandhi University of Health Sciences, Karnataka

I year BDS Degree Examination – February 2007

Time : 3 Hours

Max Marks : 70 Marks

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 sites of Erythropoiesis in an infant and an adult. Name the different stages of Erythropoiesis. List the various changes occurring at different stages of Erythropoiesis. Name the factors influencing Erythropoiesis.

SHORT ESSAY**4 X 5 = 20 Marks**

2. List three properties of cardiac muscle. Explain any one of them.
3. Mention the functions of large intestine. Briefly describe any two of them.
4. Explain the role of parathormone in the regulation of blood calcium level.
5. Draw a labeled diagram of Neuromuscular junction (NMJ) in skeletal muscle. List the events occurring in neuromuscular transmission.

SHORT ANSWERS**5 X 2 = 10 Marks**

6. Define referred pain and give two examples.
7. What are the advantages of condom as a contraceptive device
8. Define vital capacity and give its normal value.
9. Enumerate the heat gain mechanism occurring in the body when the body is exposed to cold environment.
10. Draw a diagram of pathway for pain sensation from the face.

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

LONG ESSAY**1 X 8 = 8 Marks**

1. Describe Glycolysis. Add a note on its Energetics.

SHORT ESSAY**3 X 4 = 12 Marks**

2. Ascorbic Acid – Functions.
3. Oxidative Phosphorylation.
4. Enzyme changes in liver disease.

SHORT ANSWERS**5 X 2 = 10 Marks**

5. Endoplasmic reticulum functions.
6. Bile Pigment formation.
7. LDL
8. Name Hemopoietic Vitamins.
9. Dietary sources of essential amino acids.

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