Rajiv Gandhi University of Health Sciences, Karnataka

First year B.Sc. (M.L.T) Degree Examination – March / April 2008

Time: Three Hours **Max. Marks: 80 Marks**

PATHOLOGY & MICROBIOLOGY

Q.P. CODE: 1604 & 1605

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

Use separate answer books for section A and section B

Q.P. Code: 1604 – Section A – PATHOLOGY (40 Marks)

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Discuss in detail, method for routine processing of tissues
2. Discuss microscopic examination of urine in detail

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Labelling of specimens
4. Glycosuria
5. Appearance and cell counts in C.S.F in meningitis
6. Urobilinogen in urine
7. Tests to detect completion of decalcification

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

8. Two causes for polyuria
9. Cob web coagulum
10. Name four abnormal forms of spermatozoa
11. Mention two clearing agents
12. Two fixatives used for electron microscopy

Q.P. Code: 1605 – Section B – MICROBIOLOGY (40 Marks)

Use separate answer book

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Write an essay on various Biochemical tests for identification of bacteria
2. Describe in detail sterilization employing an autoclave

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Compare Prokaryote and Eukaryote cells
4. Voges – Proskaver test
5. Oxidase test
6. Bacterial plasmids
7. DNA probes

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

8. Robert Koch
9. Glutaraldehyde
10. Selective media
11. Pour plate method
12. Thermophilic bacteria with an example

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1601 2008 [S1]

Rajiv Gandhi University of Health Sciences, Karnataka

First year B.Sc. M.L.T. Degree Examination – March / April 2008

Time: Three Hours **Max. Marks: 80 Marks**

ANATOMY – (Revised Scheme)

Q.P. CODE: 1601

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

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Classify the joints. Describe in detail the synovial joint
2. Name different parts of digestive system. Describe in the stomach in detail
3. Mention the endocrine glands. Describe the anatomy of pituitary gland

SHORT ESSAYS **8 x 5 = 40 Marks**

4. Mention all the cranial nerves in order
5. Hip bone
6. Popliteal fossa
7. Vas deferens
8. Maxillary sinus
9. Blood supply to the heart
10. Surgical importance of Vermiform appendix
11. Histology of skeletal system

SHORT ANSWERS **10 x 2 = 20 Marks**

12. Name the structures entering the hilum of the kidney
13. Name the arteries supplying the brain
14. Name the bones forming the shoulder girdle
15. Name different muscles of thigh
16. Name the parts of the respiratory system
17. Name two arteries examined for peripheral pulsations
18. List the salivary glands
19. List the functions of skin
20. Name the muscles of pharynx
21. Name the parts of brain stem

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1602 2008 1 S03

Rajiv Gandhi University of Health Sciences, Karnataka

First year B.Sc. (M.L.T) Degree Examination – March / April 2008

Time: Three Hours **Max. Marks: 80 Marks**

PHYSIOLOGY & BIOCHEMISTRY

Q.P. CODE: 1602 & 1603

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

Use separate answer books for section A and section B

Q.P. Code: 1602 – Section A – PHYSIOLOGY (40 Marks)

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. How is respiration regulated Neurally and chemically?
2. Classify muscles. Write physiological and anatomical difference between each

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. What is surfactant? What is its composition and function?
4. Write about the intrinsic mechanism of coagulation
5. Composition and function of succusentericus
6. Write in detail about metabolism of Hemoglobins
7. Define synapse. Add a note on their properties

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

8. Describe S.A. Node
9. What is Marey's law?
10. What is pheochromocytoma?
11. What do you mean by safe period
12. Diagrammatically represent the waves of jugular venous pulse

Q.P. Code: 1603 – Section B – BIOCHEMISTRY (40 Marks)

Use separate answer book

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. What is Henderson-Hasselbach equation? Give the uses of this equation. How is a universal Buffer prepared?
2. Classify phospholipids and lipoproteins. Add a note on their biological importance.

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Structure of DNA
4. Chemical balance
5. Monosaccharides
6. Structure of proteins
7. Cleaning of glassware

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

8. Mutarotation
9. Plasma protein
10. Molecular weight
11. Conical flask
12. Benedicts test

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