Rajiv Gandhi University of Health Sciences, Karnataka

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

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

MICROBIOLOGY – II (Revised Scheme)

Q.P. CODE: 1607

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. Describe the morphology, cultural characters and pathogenesis of corynebacteria. Add a note on prophylaxis in Diphtheria
2. Describe the morphology, life cycle and laboratory diagnosis in Ankylostoma duodenale
3. Name the organisms producing Urinary Tract Infections (UTI). Write the methods of collection and processing of urine sample for the diagnosis of UTI

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. Hymenolepis nana
5. Laboratory diagnosis of filariasis
6. Life cycle of toxoplasma gondii
7. Haemophilus ducreyi
8. Botulism
9. Cysticercosis
10. Ziehl-Neelsen's staining
11. VDRL test
12. Stormy clot reaction
13. Methods of collection and transportation of samples for anaerobic infections

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

14. Biochemical properties of Escherichea coli
15. Medusa head appearance
16. Name 2 parasites producing anaemia
17. Complications of Amoebiasis
18. Satelletism
19. Ova of enterobius vermicularis
20. Enzymes produced by Staphylococcus aureus
21. Draw gametocytes of plasmodium vivax
22. Name selective media for vibrio cholera
23. Castaneda's method of blood culture

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BIOCHEMISTRY – II (Revised Scheme)

Q.P. CODE: 1608

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. Describe reactions of citric acid cycle. Add a note on its energetics
2. Describe the source, daily requirements, deficiency disorders and biochemical role of vitamin D
3. Describe the structure of protein

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. G.T.T
5. Isoenzymes and their clinical significance
6. Enzyme inhibition
7. Flame photometer
8. Polysaccharides
9. Deficiency manifestation of vitamin A
10. Coenzyme role of thiamine and Riboflavin
11. Explain metabolic role of thiamine and its deficiency manifestation
12. Write coenzyme forms of Niacin and Riboflavin
13. Effect of temperature on enzyme activity

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

14. Deficiency manifestation of Niacin
15 Principles of spectrophotometry
16. Principle of electrophoresis
17. Visual cycle
18. Milk sugar
19. What are essential amino acids? Name them
20. Functions of glycolysis
21. Renal glycosuria
22. Biotin
23. Essential amino acids

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

PATHOLOGY – II (Revised Scheme)

Q.P. CODE: 1606

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. Describe the procedure of section cuttings from paraffin block. What are the difficulties encountered? Add a note on different types of microtomes
2. Define Erythrocyte sedimentation rate. Describe the technique of estimating E.S.R by Westergren method
3. How do you organize and ensure quality control in hematology laboratory?

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. Write briefly about principles and procedures of sickling test
5. What are Romanowsky stains? Give examples. How to stain smear by Leishman stain?
6. What is progressive and regressive staining? Give examples
7. Write a note on various normal and abnormal Erythrocytes that may be seen in a peripheral blood smear
8. Write briefly about polarizing microscope and its uses
9. Tests for bleeding and clotting time
10. Write a brief note on hemoglobin Electrophoresis
11. Disposal of wastes in laboratory
12. Plastination
13. Technique of microphotography

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

14. Morphology of LE cell
15. Stropping
16. Micrometry types
17. Name platelet function tests
18. Decalcifying agents
19. Name four clearing agents
20. ICDs classification
21. Morphology of Basophil
22. Mountants
23. Total leukocyte count

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