Rajiv Gandhi University of Health Sciences, Karnataka

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

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

PATHOLOGY – III (Revised Scheme)

Q.P. CODE: 1609

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 principles, preparation of reagents and procedure of pap technique in immuno histochemistry
2. Describe the methods involved inkaryotytic analysis of human cells
3. Describe the hormone cytology of female genital tract

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

4. Autoclave
5. Describe briefly ABO and Rh typing
6. Write a note on flow cytometry
7. CSF analysis
8. Normal anatomy and histology of breast
9. How do you culture human lymphocytes
10. Image analysis
11. Dry heat sterilization

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

12. Indications for bone marrow biopsy
13. Normal histology of thyroid gland
14. Preparation of anti-human globulin reagent
15. Blood grouping procedure
16. Inverted microscope
17. Immunological properties of cells
18. Principle of plasmapharesis
19. Enumerate blood components
20. Use and care of microscope
21. Nomenelature of human chromosomes

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Rajiv Gandhi University of Health Sciences, Karnataka

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

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

MICROBIOLOGY – III (Revised Scheme)

Q.P. CODE: 1610

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, laboratory diagnosis and prophylaxis of Poliomyelitis
2. Enumerate antigen antibody reaction. Discuss precipitation reaction
3. Define and enumerate dimorphic fungi and discuss histoplasmosis

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

4. Mechanism of autoimmunity
5. Prophylaxis against rabies
6. Adjuvant
7. Inclusion body
8. Dermatophytes
9. Standard precautions
10. Kysanur Forest Disease (KFD)
11. Rhinosporidium
12. Primary lymphoid organs
13. Phagocytosis

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

14. Neutralization
15. Haptens
16. Morphology of influenza virus
17. Structure of IgM
18. Biological effects of interferon
19. Graft versus host reaction
20. ID reaction
21. Slow viral diseases
22. List viruses causing diarrhea
23. Candida albicans

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

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

BIOCHEMISTRY – III (Revised Scheme)

Q.P. CODE: 1611

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 different mechanisms to maintain the acid base balance in the body
2. Describe the different types of analysis of gastric juice. Add a note on their interpretation
3. What is ketosis? What are the causes? Enumerate the steps of formation and utilization of ketone bodies

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

4. Metabolism of bilirubin
5. Enzymes in the diagnosis of Myocardial infarction
6. Creatinine clearance
7. Name the plasma lipoproteins. Describe their functions
8. Liver function tests
9. Define respiratory acidosis. Mention the causes and biochemical findings in respiratory acidosis
10. Mention the clinical applications of radio active isotopes
11. Classify lipids with examples
12. Functions of iron in the body
13. Quality control

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

14. Rancidity
15. Diagnostic significance of serum alkaline phosphatase
16. Normal values of serum calcium & blood urea
17. Mention two inborn errors of lipid metabolism and indicate the enzyme defect
18. Van den Bergh reaction
19. Functions of copper
20. Na^+-K^+ ATPase pump
21. Lipotropic factors
22. Triglycerides
23. Functions of sodium

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