4

1609_2010_1_S51

Rajiv Gandhi University of Health Sciences, Karnataka

Third year B.Sc. (M.L.T) Degree Examination – Feb - 2010

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 selection criteria of a blood donor and the various screening tests done on the donor's blood
2. Describe the methods of preparation of cervical smear and explain the cytologic features of normal and malignant conditions
3. Define Karyotype. Describe the procedure of Karyotyping of malignant tumour

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

4. Bethesda system in cytology
5. Demonstration of barr body in buccal smear
6. Write a note on collection and preparation of pleural fluid for cytological examination
7. Cytologic features of non-malignant and malignant effusions
8. Blood bank administration
9. Principle of immunohistochemistry
10. How do you collect material from urinary tract to study cancer cells?
11. Write a note on Coomb's test

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

12. Normal cytology of respiratory tract
13. Maturation index
14. Write briefly about the nomenclature of human chromosomes
15. Cryoprecipitate
16. Triploidy
17. Name the phases of mitosis in the order of their appearance
18. Enumerate important blood group systems
19. Oncogenes
20. H&E stain
21. VG stain

*****

6

1611_2010_1_S50

Rajiv Gandhi University of Health Sciences, Karnataka

Third year B.Sc. (M.L.T) Degree Examination – Feb - 2010

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 role of kidney in the regulation of blood pH
2. Classify lipids with examples
3. Describe the causes & mechanism of formation of renal calculi. Outline the qualitative tests used to assess calculi

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

4. Absorption & transport of iron
5. Name the kidney function tests. Explain any one test
6. Enzymes used to assess liver function
7. What are phospholipids? Give their functions
8. Synthesis of ketone bodies
9. Iso-enzymes
10. Bilirubin metabolism
11. Units of radioactivity & radiation hazards
12. Lipoproteinemias
13. Functions of gastric juice

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

14. Enzyme defects in a) Maple Syrup urine disease b) Alkaptonuria
15. Sphingolipids
16. Stable isotopes
17. Hay's test
18. Reference ranges of AST & ALT by Reitman & Frankel method
19. Define free & total acidity of gastric juice
20. Galactosemia
21. Normal serum levels of cholesterol & triglycerides
22. Respiratory acidosis
23. Alkaline phosphatase

*****

5

1610_2010_1_S42

Rajiv Gandhi University of Health Sciences, Karnataka

Third year B.Sc. (M.L.T) Degree Examination – Feb - 2010

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. Explain the various methods of laboratory diagnosis of viral infections
2. Name the serological tests used in microbiology. Write in detail principle and applications of enzyme liked immunosorbent assay
3. Describe the general characters of fungi. Write in detail about Candida albicans

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

4. Rubella virus
5. Inclusion bodies
6. Actinomycosis
7. Interferon
8. Passive immunity
9. Histoplasma capsulatum
10. Pulse polio
11. Immunoglobulin 'M'
12. Monoclonal antibodies
13. Hypersensitivity type III

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

14. Widal test
15. Mucor
16. Co-agglutination
17. Bacteriophage
18. Antigen
19. DNA probes
20. Yeast like fungi
21. Compare virus and bacteria
22. Fungal spores
23. Rabies vaccines

*****