Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. (MLT) Degree Examination - 29-Dec-2020

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

BIOCHEMISTRY – PAPER II (RS3)

Q.P. CODE: 3156

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

LONG ESSAY (Any Two) **2 x 10 = 20 Marks**

1. Discuss in detail metabolism of glycogen in our body.
2. Give RDA, dietary sources, functions and deficiency manifestations of vitamin C.
3. Write the principle, procedure and application of paper chromatography.

SHORT ESSAY (Any Six) **6 x 5 = 30 Marks**

4. Classify enzymes with example.
5. Enumerate the reactions of synthesis of creatine. Write normal serum levels of creatinine.
6. Reactions of Urea Cycle.
7. Competitive inhibition with example.
8. Parts of spectrophotometer.
9. What are Mucopolysaccharides? Give composition of any two Mucopolysaccharides with function.
10. Structure and function of tRNA.
11. Procedure of venous blood sample collection.

SHORT ANWERS (Any Ten) **10 x 3 = 30 Marks**

12. What is end point method? Give two examples.
13. Principle of Turbidimetry.
14. Chemical analysis of pleural fluid.
15. Urinary acidification test.
16. Hb A 1c and its clinical significance.
17. Ninhydrin test.
18. Preparation of 100ml of 1N NaOH solution.
19. Primary structure of protein.
20. Name any three abnormal constituents of urine with one condition each in which they are present in urine.
21. What are buffers? Give two examples.
22. Principle of reflectance spectrophotometry.
23. How to plot calibration curve.

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II Year B.Sc. (MLT) Degree Examination - 05-Jan-2021

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

Microbiology – II (RS3)

Q.P. CODE: 3157

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

LONG ESSAY (Any Two) **2 x 10 = 20 Marks**

1. Describe the life cycle and laboratory diagnosis of Entamoeba histolytica.
2. Describe the morphology, life cycle and laboratory diagnosis of Ankylostoma duodenale.
3. Describe the pathogenesis and laboratory diagnosis of Corynebacterium diphtheriae.

SHORT ESSAY (Any Six) **6 x 5 = 30 Marks**

4. Giardia lamblia
5. Laboratory diagnosis of Toxoplasma gondii
6. Laboratory diagnosis of urinary tract infection
7. Laboratory diagnosis of Brucellosis
8. Standard test for syphilis
9. Life cycle of Taenia solium
10. Bacterial food poisoning
11. Classification of Streptococci

SHORT ANWERS (Any Ten) **10 x 3 = 30 Marks**

12. Name the non-sporing anaerobes.
13. Lepromin test
14. Weil Felix test
15. Coagulase test
16. Name any three Pigment producing bacteria.
17. Name three Gram negative organism.
18. Name three selective media in Cholera.
19. Morphology of Neisseria gonorrhoeae
20. Satellitism
21. Thick and thin smear examination of malaria
22. Gardnerella vaginalis
23. Balantidium coli

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II Year B.Sc. (MLT) Degree Examination – 07-Jan-2021

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

PATHOLOGY – II (RS3)
Q.P. CODE: 3158

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. What is normal Hemostasis? Discuss the tests for investigation of bleeding disorders.
2. Describe the automated tissue processor. Add a note on rotatory microtome.
3. Describe the tests for Megaloblastic anemia.

SHORT ESSAYS (Answer any Six) **6 x 5 = 30 Marks**

4. Describe the procedure for reticulocyte count.
5. Enumerate Romanowsky's stains. Describe any one stain in detail.
6. Define Packed Cell Volume and describe one method of estimation for the same.
7. Method of estimation of AEC.
8. Describe investigations for G6PD deficiency.
9. Describe routine paraffin section cutting.
10. Describe uses of fluorescent and dark ground microscope.
11. Describe the tests for autoimmune hemolytic anemia.

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

12. Enumerate the special stains used for connective tissue.
13. What is Sickling test?
14. Describe Euglobulin Lysis test.
15 What are the uses of electron microscope?
16. Indications for bone marrow aspiration.
17. Morphology of lymphocyte.
18. List the dehydrating agents in histopathology.
19. Enumerate the cytochemistry tests.
20. List the abnormal. Hemoglobin pigments.
21. Give the normal values of MCV, MCH and MCHC.
22. What is regressive staining? Give examples.
23. Causes of Neutrophilia.

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