SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

1/4

B.Sc. Allied Health Sciences Second Year (Semester-III)

February – 2017 Examination

B.Sc. Medical Laboratory Technology (MLT)

Time : 2.30 Hrs. **[Max. Marks: 80]**

BIOCHEMISTRY

Q.P Code : AHS-105

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

LONG ESSAY **2 X 10 = 20 Marks**

1. With a neat labeled diagram, explain the various cell organelles.
2. How are carbohydrates digested and absorbed.

SHORT ESSAY (Answer any Six) **6 X 5 = 30 Marks**

3. Cholesterol and its functions.
4. Explain different types of transport mechanisms in cell.
5. Polysaccharides.
6. Structure of DNA.
7. Vitamin K.
8. Classification of lipids
9. Lipoproteins.
10. Structure of Haemoglobin.

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

11. Heat and acetic acid test.
12. Lactose intolerance.
13. Specific urease test.
14. Functions of albumin.
15. Purine and pyrimiding bases.
16. Essential amino acids.
17. Benedict's test.
18. Microalbuminuria.
19. Steatorrhea.
20. Diabetic ketoacidosis.
21. Molisch's test.
22. Rothera's test.

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PATHOLOGY

Q.P Code : AHS-107

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

LONG ESSAY **2 X 10 = 20 Marks**

1. What is the normal leukocyte count value. Describe in detail about lymphocyte and list out the causes where it is increased, decreased and various forms found on blood smear.
2. Describe in detail the investigations in a case of iron deficiency anemia.

SHORT ESSAY (Answer any Six) **6 X 5 = 30 Marks**

3. Schilling test.
4. Osmotic fragility test.
5. What are the abnormal Hb pigments and how it is measured.
6. Draw a neat labeled diagram of platelet and its normal values.
7. Absolute eosinophilcount
8. Write a note on normal Erythrpoiesis.
9. Buffy coat.
10. Reticulocyte count.

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

11. Mature RBC.
12. Monocyte-Draw a neat diagram and its normal value.
13. Myeloblast.
14. What is the normal platelet count. Mention two causes of thrombocytosis.
15. MCH and its significance.
16. Warm antibody.
17. Hemophilia.
18. What infections cause hemolysis.
19. Tear drop cells.
20. Prothrombin time. What is the normal value. Mention two causes of increased prothrombin time.
21. Bleeding time.
22. Westergen's tube.

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MICROBIOLOGY

Q.P Code : AHS-109

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

LONG ESSAY **2 X 10 = 20 Marks**

1. Classify Mycobacteria. Discuss laboratory diagnosis of pulmonary tuberculosis.
2. Describe morphology and cultural characteristics of gonococci and meningococci. Add a note on laboratory diagnosis of gonorhoea and meningitis.

SHORT ESSAY (Answer any Six) **6 X 5 = 30 Marks**

3. Coagulase test.
4. Anthrax.
5. Nagler's reaction.
6. Staphlycoccal infections.
7. Non suppurative complications of streptococcal infections.
8. Lab diagnosis of pneumococcal pneumonia.
9. Meningitis.
10. Gonorrhoea.

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

11. Camp test.
12. Negative staining.
13. DPT.
14. Antibiotic sensitivity testing.
15. Gas gangrene.
16. Name three toxins produced by staphylococcus aureus.
17. Hide porters disease.
18. Three bacteria causing meningits.
19. Three transport media.
20. Three bacteria causing food poisoning.
21. Two anaerobic culture methods.
22. Clostridium botulinum.

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