SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

February - 2016 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 parts of a eukaryotic cell.
2. Describe the chemistry, source, absorption, transport, functions and deficiency disease of vitamin D.

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

3. Write the abnormal constituents of urine and the conditions in which they are excreted.
4. Classification of lipids with an example from each class.
5. Dietary importance of proteins.
6. Compounds synthesised from cholesterol.
7. Separation of plasma proteins by electrophoresis.
8. Structure and functions of immunoglobulins.
9. Digestion and absorption of lipids.
10. Give the principle and procedure of two tests to detect protein in urine.

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

11. Normal constituents of urine.
12. Steatorrhea.
13. Functions of phospholipids.
14. Benedicts test and its applications.
15. Specific dynamic action.
16. List out purine and pyrimidine bases.
17. Test to detect ketone bodies.
18. Sickle cell anaemia.
19. Essential fatty acids.
20. Albumin globulin ratio.
21. Hyperglycemia.
22. Rickets.

* * *

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

February – 2016 Examination

B.Sc. Medical laboratory Technology (MLT)

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

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. Name four bacteria causing meningitis. Discuss the laboratory diagnosis of bacterial meningitis.
2. Discuss the newer laboratory methods in the diagnosis of pulmonary tuberculosis.

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

3. Morphology and culture characters of Pneumococcus.
4. Clostridium tetani.
5. Non suppurative complications of streptococcus pyogenes infection.
6. Bacillus cereus.
7. Coagulase test.
8. Lepromin test.
9. Laboratory diagnosis of Gonorrhea.
10. Albert's stain.

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

11. CRP test.
12. Staphylococcal food poisoning.
13. DPT vaccine.
14. Naeglers reaction.
15. CAMP test.
16. Atypical mycobacteria.
17. Viridans streptococci.
18. Complications of diphtheria.
19. Clostridium difficle.
20. M' Fadyean's reaction
21. Infections caused by enterococcus.
22. Coagulase negative Staphylococcus.

* * *

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

February - 2016 Examination

B.Sc. Medical laboratory Technology (MLT)

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

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. Describe the laboratory investigations in diagnosis of Megaloblastic anemia.
2. Describe in detail the procedure for preparation and staining of peripheral blood films. Write a brief note on differential leukocyte count.

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

3. Reticulocyte count.
4. Red cell indices.
5. Morphology and functions of eosinophils.
6. Quality assurance in hematology laboratory.
7. Laboratory investigations in G-6-PD deficiency.
8. Platelet function tests.
9. Total WBC count.
10. Describe the procedure for bleeding time (BT)

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

11. Total iron binding capacity.
12. Hemoglobin electrophoresis in sickle cell anemia.
13. Anticoagulants in coagulation studies.
14. Name the tests to assess the fibrinolytic activity.
15. Wright stain preparation.
16. Functions of neutrophils.
17. Stem cells.
18. Plasma haptogobin.
19. Mention the factors which affect ESR.
20. Direct coomb's test.
21. MCH
22. Fibrin Degradation products.

* * *