SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences Third Year (Semester-V)

April 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. Describe heme biosynthesis. Add a note on porphyrias.
2. Give an account of absorption and regulation of plasma calcium level.

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

3. Describe any three renal function tests.
4. Explain the test based on metabolic and excretory function of liver.
5. Creatinine clearance test.
6. What is CSF? Mention its composition. Add a note on the clinical application of CSF analysis.
7. Give an account of storage and transport of iron.
8. Mention any three parameters included under thyroid function tests. Explain any two clinical interpretation of estimation of thyroid hormones in blood.
9. Gout.
10. Briefly explain the formation and composition of renal stones.

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

11. Alkaptonuria.
12. VonGierke disease.
13. Neimann pick disease.
14. Mention any three biochemical functions of zinc in the body.
15. Dental caries.
16. Normal level of serum calcium and phosphorus.
17. Lactose intolerance.
18. Heriditary fructose intolerance.
19. Functions of iodine.
20. VAN den berg test.
21. Composition of galstone.
22. Hay's test.

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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. Describe the morphological forms of entamoeba histolytica, discusss the clinical features and laboratory diagnosis of amoebic dysentery.
2. Describe the lifecycle, clinical features and laboratory diagnosis of Tania solium.

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

3. Giardia lamblia.
4. Laboratory diagnosis of malaria.
5. Laboratory diagnosis of toxoplasmosis.
6. Life cycle of hook worm.
7. Hydatid cyst.
8. Fasciola hepatica.
9. Post kalaazar dermal leishmaniasis.
10. Life cycle of ascaris lumbricoides.

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

11. Draw a neat labeled diagram of trophozite of balantidium coli.
12. Entero test.
13. Enumerate filarial worms.
14. Draw neat labeled diagrams of the eggs of schistosoma species.
15. Name three bile stained eggs.
16. Enumerate the malarial parasites.
17. Larva migrans.
18. Microfilaria.
19. Enumerate three free living amoebae.
20. Name three opportunistic parasitic infections.
21. Classify helminthic parasites with examples.
22. Parasitic infections transmitted by Cyclops.

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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. Mention the sources of cerebrospinal fluid (CSF) sample. Discuss CSF cytology in inflammatory, benign and malignant diseases of the central nervous system.
2. What is a cell? Describe the normal structure and functions of its components. What are the cytologic criteria of malignancy?

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

3. Bethesda system of cervical vaginal cytology.
4. Write the uses of fine needle aspiration cytology.
5. Anatomy and histology of respiratory tract.
6. Causes of increased CSF neutrophils.
7. Causes of lymphocytes in pleural fluid.
8. Methods of sputum collection and preparation. How is sputum specimen adequacy determined?
9. Types of cytology specimens received in pathology laboratory.
10. Fixatives used in cytology.

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

11. Cytology of malignant conditions in urinary tract.
12. Normal histology of ovary.
13. ASCUS.
14. Preparation of cell block and its uses.
15. Radiation changes in cell.
16. CSF in tuberculous meningitis.
17. What are the disadvantages of urine specimens obtained by catheterization?
18. Normal histology of salivary gland.
19. Principle of Papanicoloua's stain.
20. Mention any three infections detected in PAP smears.
21. Clue cells in PAP smear.
22. Phase of normal menstrual cycle.

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