SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences Third Year (Semester-V)
Medical Laboratory Technology (MLT)
April-2015 Examinations

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. How bilirubin is formed and detoxified in the body.
2. Give an account of absorption, transport and storage of iron in the body.

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

3. Describe any three liver function tests.
4. How is blood calcium level regulated in the body.
5. Discuss the formation and composition of renal stone.
6. What is CSF? Mention its composition and give any two clinical interpretation of CSF analysis.
7. Mention any three parameters included under the thyroid function tests. Explain any two clinical interpretation of estimation of thyroid hormones in blood.
8. Creatinine clearance test.
9. What are porphyrias? How are they classified? Mention the enzyme defect in acute intermittent porphyria.
10. Mention the sources of Zinc and explain any three biological functions of zinc in the body.

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

11. Lactose intolerance.
12. Mention any three biological functions of iodine.
13. Normal serum level of calcium and phosphorus.
14. Fluorosis.
15. Write any three differences between a transudate and exudates.
16. Homocystinuria.
17. Galactosemia.
18. Phenylketonuria.
19. Normal serum level of SGOT,SGPT and ALP.
20. Gauchers disease.
21. Urea clearance test.
22. Hypocalcemia.

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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. Describe the method of collection and staining of PAP smear. Describe the cell morphology in malignant lesions of cervix.
2. Describe in detail the cytology of CSF in benign and malignant conditions.

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

3. Describe the method of staining in May grunwald giemsa stain.
4. What are the qualities of an ideal fixative?
5. Cytology in ovarian cancer.
6. Radiation induced changes in cervical cytology.
7. Cytology of CSF in tuberculous meningitis.
8. Shorr's stain.
9. Histology of respiratory tract.
10. Anatomy of gastrointestinal tract.

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

11. What is aceto-orcein stain. Where is it used.
12. Cytology of malignant plural effusion.
13. Uses of May grunwald giemsa stain.
14. Types of specimens used for cell block.
15. Mention the fixative used in PAP smear and its advantages.
16. Physical appearance of malignant ascitic fluid.
17. Histology of urinary tract.
18. Methods of sample collection in respiratory tract lesions.
19. Principle of PAP stain.
20. Endometrial cytology in malignant conditions.
21. Functions of nephrons.
22. Mention the phases of normal menstrual cycle.

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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 in detail the life-cycle, pathogenesis and laboratory diagnosis of entamoeba histolytica.
2. Classify nematodes. Discuss in detail the pathogenesis and laboratory diagnosis and treatment of filariasis.

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

3. Life-cycle of Ascaris lumbricoides.
4. Strongyloides stercoralis.
5. Toxoplasmosis.
6. Schistosoma hematobium.
7. Hydatid cyst.
8. Cysticercus cellulosae.
9. Laboratory diagnosis of malaria.
10. Lab diagnosis of visceral leishmaniasis.

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

11. Stool concentration techniques.
12. Name three parasites entering through skin to cause human infection.
13. Acanthamoeba.
14. Lab diagnosis of trichomonas vaginalis.
15. Name three non bile stained ova.
16. Name three tissue nematodes.
17. Name three infective forms of parasites.
18. Draw a neat labelled diagram of cyst and trophozoite of giardia lamblia..
19. Name three parasites causing anemia.
20. Name three parasites having two intermediate hosts.
21. Hymenolepis nana.
22. NIH swab.

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