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)

Examination June-2014

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

MICROBIOLOGY

Q.P Code : 109

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

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

1. Discuss briefly the morphology, life cycle, lab diagnosis, complications of Plasmodium Falciparum.
2. Discuss briefly the life cycle, pathogenesis, lab diagnosis of Taenia solium.

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

3. Write in short the prophylactic measures and treatment for amoebiasis.
4. Strongyloides Stercorales.
5. Life cycle of Toxoplasma gondii.
6. Schistosoma haematobiom-life cycle, lab diagnosis.
7. Laboratory diagnosis of visceral leishmaniasis.
8. Enterobius vermicularis.
9. Microfilaria.
10. Laboratory diagnosis of Giardiasis.

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

11. Intermediate host.
12. Draw a neat labelled diagram of Hydatid cyst.
13. Treatment for malaria.
14. Name three species of Leishmania.
15. Autoninfection.
16. Name three bile stained eggs.
17. Morphology of ova of Trichoris Trichora.
18. Name three Parasites causing Anaemia
19. Name three stool concentration techniques.
20. Name three tissue nematodes.
21. Iodine mount.
22. Egg of Hymenolepis nana.

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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 the different mechanisms to maintain the acid base balance in the body.
2. Describe liver function tests and their significance.

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

3. Fractional test meal.
4. Calcium homeostasis.
5. Iron absorption.
6. Metabolism of bilirubin.
7. Gastric stimulation tests.
8. Composition of renal calculi.
9. Clearance tests.
10. Respiratory alkalosis.

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

11. Liver enzymes.
12. Combined acidity.
13. Anion gap.
14. NA+-K+ Atpase pump.
15. Hemosiderosis.
16. Normal serum values for a) Sodium b) Potassium
17. Ceruloplasmin.
18. Neonatal Jaundice.
19. Functions of Phosphorus.
20. Mention the causes of metabolic acidosis.
21. Precision.
22. Mention the composition of Gastric Juice.

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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. Preparation, principle and staining technique of Papinicoloau stain.
2. Methods of collection of samples and preparation of cell block.

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

3. Mention in detail the method of collection of CSF, preparation and staining in a case of meningitis.
4. Cytology of Pleural effusion in benign and malignant conditions.
5. Hormonal cytology.
6. Acid fast stain for sputum, method and interpretation.
7. Give an account of the squamous intraepithelial neoplasia in cervical smears.
8. How do you collect and test the urine sample in urinary tract infections?
9. CSF examination in various inflammatory conditions.
10. Discuss in detail the cytology of endometrium, normal, benign and malignant conditions.

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

11. Correlation of SIL with CIN.
12. Draw a neat diagram of respiratory epithelium.
13. Casts and crystals in urine.
14. Charcot leyden crystals.
15. Maturation value.
16. ZN stain.
17. Cytospray.
18. Barr body.
19. ASCUS.
20. Arye's spatula.
21. Mention any three infections detected in pap smears.
22. Mention any three casts seen in urine Cytology.

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