

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

Feb/March 2017 Examination

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. Write the sources, daily requirements, absorption, transport and storage of iron. Add a note on iron deficiency anemia.
2. Discuss the formation and fate of bilirubin. Add a note on Van den berg test.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Benedict's test and its significance.
4. Hepatocellular jaundice.
5. Anemia.
6. Creatinine clearance test.
7. Renal function test and its interpretations.
8. Parameters done in lipid profile and their interpretation.
9. Gastric function test.
10. Pleural fluid analysis.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Hypocalcaemia.
12. Biochemical functions zinc.
13. Enzymes studies in LFT.
14. Renal stones
15. Name three glycogen storage disorders.
16. Homocystinuria.
17. Ferric chloride test.
18. Hypoalbuminemia.
19. Mention any three biochemical functions of calcium.
20. Hyperkalemia.
21. Hyperthyroidism.
22. Free T3 and T4.

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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 principle, preparation and staining technique of papanicolaous stain.
2. Describe the methods of collection and preparation of cell block.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Describe liquid based cytology.
4. Describe benign and malignant conditions seen in cervical cytology screening.
5. Shorn's stain.
6. CSF examination.
7. Describe urine cytology.
8. Describe cytological features of malignancy.
9. Describe collection, preparation and staining of sputum for cytology.
10. Describe cytology of endometrium disorders.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Name three advances of FNAC.
12. CYTOSPIN.
13. Histology of cervix.
14. Cytological indices.
15. Artifacts in fluid cytology.
16. Name three special stains used in FNAC.
17. Define exfoliative cytology.
18. Uses of aceto orcin stain.
19. Principles of flow cytometry.
20. Name three ovarian cancer.
21. Physical examination of pleural fluid.
22. Rapid stains for cytology smears.

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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 morphology, life cycle and laboratory diagnosis of entamoeba histolytica with neat labeled diagrams.
2. Describe the life cycle, pathogenesis and laboratory diagnosis of ankylostoma duodenale

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Stool examination for parasitic infections.
4. Post-kala azar dermal leishmaniasis.
5. Complications of plasmodium falciparum
6. Laboratory diagnosis of fasciola hepatica.
7. Life cycle of giardia lamblia.
8. Occult filariasis.
9. Laboratory diagnosis of Taeniasis.
10. Laboratory diagnosis of Balantidium coli.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Modes of human infection of Toxoplasma gondii.
12. Quantitative buffy coat analysis.
13. Leishman-Donovan bodies.
14. Name three species of schistosomes.
15. NIH swab.
16. Name three tissue nematodes.
17. Casoni test.
18. Draw a neat labelled diagram of egg of hymenolepis nana.
19. Name three helminths infecting humans through skin penetration.
20. River blindness.
21. Name three opportunistic parasitic infections in AIDS.
22. Enumerate three bile stained eggs.