

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

October -2018 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. Explain the steps of activation, initiation, elongation and termination of protein Biosynthesis.
2. What is chromatography? Describe the principle, procedure and applications of high pressure liquid chromatography.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. What is replication? Describe the steps of replication.
4. Describe the role of kidneys in the maintenance of acid base balance.
5. Thyroid profile.
6. Enzymes that help to assess liver function.
7. Principle and technique of colorimetry.
8. ELISA.
9. Mass spectrometry.
10. Laboratory diagnosis of myocardial infarction.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Therapeutic drug monitoring.
12. Reverse transcriptase.
13. Proteomics.
14. Define radioactivity. Name the uses of a) I¹³¹ b) Co⁶⁰.
15. Write the differences between standard error of mean and standard deviation.
16. Glycated hemoglobin.
17. Biochemical profile in pancreatic function.
18. Principle of electrophoresis.
19. Principle of flame photometry.
20. Bone profile.
21. LH and FSH.
22. Write normal levels and clinical significance of serum and urinary creatinine.

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MICROBIOLOGY

Q.P Code : AHS-109

Your answers should be specific to the questions asked.

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LONG ESSAY

2 X 10 = 20 Marks

1. Enumerate the opportunistic fungi. Discuss the pathogenesis and lab diagnosis of cryptococcal meningitis.
2. Discuss the pathogenesis and laboratory diagnosis of rabies virus infection.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Cell cultures in cultivation of virus.
4. Infections caused by herper simplex virus.
5. Hepatitis E virus.
6. Chromoblastomycosis.
7. Explain slide culture technique.
8. Laboratory diagnosis of dermatophytoses.
9. Describe pathogenesis and lab diagnosis of chikungunya virus infection.
10. Laboratory diagnosis of HIV infection.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Hepatitis B virus vaccine.
12. Enumerate three infections caused by Aspergillus.
13. Draw a neat diagram of Rhizopus.
14. Pityriasis versicolor.
15. Otomycosis.
16. Candida albicans.
17. List three diarrhoea causing viruses.
18. List three dimorphic fungi.
19. Inclusion bodies-definition, types and uses.
20. Lactophenol cotton blue stain.
21. Mycotoxicosis.
22. Difference between yeast and mould form of fungi.

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PATHOLOGY

Q.P Code : AHS-107

Your answers should be specific to the questions asked.

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LONG ESSAY

2 X 10 = 20 Marks

1. What is Karyotyping? Discuss various methods of Karyotypic analysis.
2. What are the steps involved in Phlebotomy? Mention the adverse donor reactions.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Briefly describe sample preparation for flow cytometry.
4. List the Cytologic features of malignant smears on FNAC.
5. Coomb's test.
6. Briefly discuss the fixation and staining procedures for routine cytology specimens.
7. List the advantages of blood components over whole blood.
8. Briefly describe plating, subculturing and derivation of cell lines in tissue culture.
9. Discuss the steps involved in antigen retrieval for immunocytochemistry. List the precautions to be taken to avoid artefacts during staining.
10. Discuss in detail cross matching.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. How should platelets be preserved? What is its shelf life.
12. In the given example "Xq21.3". what does each Alphabet/Numbers stand for?
13. Name three uses of image analysis.
14. Bombay Blood Group.
15. List the parts of laminar air flow equipment.
16. List the media in which immortalized cell lines can be preserved.
17. Describe the normal histology of thyroid gland.
18. Define primary and secondary antibody in immunohistochemistry.
19. What are Oncogenes? Give two examples.
20. List the different chromosomal banding techniques.
21. Name three anticoagulants used in blood banking.
22. List the precautions to prevent transfusion transmitted infections in blood banking.