

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

July-2019 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 in detail about Western blotting Technique. Add a note on its applications.
2. What is the pH of the blood? Explain in detail about different types of Acid-base disturbances.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Explain the process of Transcription.
4. Write a note on Restriction Endonucleases.
5. What are Radioisotopes? Explain their applications in medicine.
6. Explain replication of DNA in eukaryotes.
7. Define the following:- a) Mean b) Median c) Mode
8. Describe Renal Function Tests.
9. Explain the principle procedure and applications of flame photometry.
10. Explain briefly the different techniques used to purify proteins.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Mention the post translational modifications.
12. Silent Mutation.
13. Mention the various Blood Buffers.
14. What is meant by Therapeutic Drug Monitoring (TDM)?
15. t-test
16. Enzyme profile for Liver diseases.
17. Write the principle of Elisa.
18. Write the principle of thin layer chromatography.
19. Write the principle of colorimeter.
20. Isoelectric Precipitation.
21. What are Vectors? Give examples.
22. What is Insulin? Mention its biological role.

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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 FNAC of breast lump in 55 years old female. Describe the cytologic features of smear in case of Carcinoma breast.
2. Who is an ideal donor? Mention the infections you screen for in an ideal donor.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Sex chromatin.
4. Presentation of immortalized cell lines.
5. Coomb's test and its significance.
6. Fixing the FNAC smears.
7. Philadelphia Chromosome.
8. Bombay blood group.
9. Fite-Faraco stain.
10. Inverted microscope.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Anticoagulant used in blood bags.
12. Who is voluntary donor?
13. Red cell antigens.
14. Laminar flow instrument-importance.
15. Oncogenes.
16. Life of granulocyte in blood bag stored at 4° C.
17. Malignant cell morphology in cytology smear.
18. Three broad major indications for blood transfusion.
19. What is IHC and mention two uses in diagnosis.
20. Three equipments essential for tissue culture.
21. Mention media for plating tissue culture.
22. How much blood can be donated at a time.

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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. Enumerate dermatophytes. Describe in detail about infections and laboratory diagnosis of dermatophytosis.
2. Draw neat labeled diagram of HIV. Describe pathogenesis and lab diagnosis of HIV infection.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Laboratory diagnosis of fungal infections.
4. Candida albicans.
5. Cryptococcosis.
6. Sporotrichosis.
7. Laboratory diagnosis and prophylaxis of Hepatitis B infection.
8. Prophylaxis of polio.
9. Viral replication.
10. Pathogenesis and laboratory diagnosis of rabies.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Classification of fungi.
12. Name the genera of dermatophytes with examples.
13. Name the opportunistic fungi.
14. Reynolds braude phenomenon.
15. Name three species of Aspergillus.
16. Viral interference.
17. Name three viruses causing diarrhea.
18. Classification of herpes viruses.
19. Name three viruses causing encephalitis.
20. Antigenic shift and drift.
21. MMR vaccine.
22. Name three oncogenic viruses.