



SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

March 2024 Examination

B.Sc. Medical Laboratory Technology

Time : 2.30 Hrs.

Paper-I

[Max. Marks : 80]

Subject: Applied aspects of Biochemistry

Q.P Code : J6060

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. What are the various pre analytical, analytical and post analytical variables. Add a note on the types and advantages of Quality control.
2. Give an account on Principle, different types, instrumentation, procedure and applications of Electrophoresis.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. What are Acute phase proteins ? List any 4 with their clinical significance.
4. Define clearance test. Explain the various types of clearance tests..
5. Define Mean, Median, Mode, Standard Deviation (SD) & Coefficient of variation (% CV).
6. Explain briefly the advantages of Laboratory Accreditation
7. Give the principle and advantages of ISE
8. Describe the Biochemical parameters analyzed in Pleural fluid and give its clinical significance
9. Explain the process of Automation in a Clinical Biochemistry Laboratory
10. Classify Liver Function tests. Explain any four parameters in detail.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Principle of Flame Photometry
12. List 3 devices used in POCT
13. Microalbuminuria
14. List the parameters in diagnosing thyroid function disorder.
15. Mention the advantage of spectrophotometer compared to colorimeter
16. Glycated Hemoglobin and its significance
17. Write on the types of Audit in a Laboratory
18. Creatinine clearance test
19. Clinical significance of Ascetic fluid analysis
20. Define Mean & Median
21. Define Post analytical variables and mention any two of them.
22. Give the biological reference range of 1) SGOT 2) ALP 3) Total Bilirubin

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

March 2024 Examination

B.Sc. Medical Laboratory technology (MLT)

Time: 2.30 Hrs.

[Max. Marks: 80]

Subject: Applied Aspects of Pathology

Q.P Code: J6080

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2x10=20Marks

1. Mention the source of cerebrospinal fluid (CSF) sample. discuss CSF cytology in inflammatory, benign and malignant diseases of the central nervous system
2. Define hypersensitivity reactions. Describe type I hypersensitivity reaction with examples

SHORT ESSAY (Answer any six)

6x5=30Marks

3. Describe indications, contraindications and interpretation of pleural fluid analysis
4. Describe pathogenesis pernicious anaemia
5. Describe collection, preparation and staining of sputum for cytology
6. Define biomedical waste management. Discuss their safe management of it
7. Describe microscopy of urinary sediment. write a note on urinary casts
8. Describe urine analysis by strip method
9. Describe pathogenesis of thyroiditis
10. Describe microscopy of urinary sediment. write a note on urinary casts

SHORT ANSWERS (Answer any ten)

10x3=30Marks

11. What are crystals? name the conditions associated with urinary crystals
12. List three differences between transudate and exudates
13. Mention three delayed transfusion reactions
14. Name three haemolytic anaemias
15. Define hypersensitivity reaction
16. Name the parts of antigen
17. What is arthus reaction
18. Name three different modes of urine collection
19. Name three renal function tests
20. Name the antibodies present in thyroiditis
21. What is autoimmune disease

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