

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

October - 2016 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. Describe Southern Blotting Techniques. Add a note on its applications.
2. Describe different Chromatographic Techniques.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Define PCR. Explain the principle and procedure of PCR.
4. What is Cloning? Explain the procedure and applications of cloning.
5. Explain the role of kidney and lungs in maintaining the acid-base balance.
6. Explain the following: a) Correlation Coefficient b) Standard error of mean.
7. Mention the pituitary function tests. Explain any four in detail.
8. Classify liver function test. Explain any four in detail.
9. Agarose gel electrophoresis.
10. ELISA

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Semi conservative replication.
12. Replication fork.
13. Frame shift mutations.
14. Radioactive Decay.
15. Metabolic alkalosis.
16. What is therapeutic drug monitoring.
17. What is Mutation? Give any two examples.
18. Write the principle of colorimeter.
19. Write the principle of ion selective electrode.
20. What is the principle of paper chromatography.
21. Mention the different techniques to precipitate protein.
22. Mention the biological functions of
 - a) Luteinizing hormone
 - b) Follicular Stimulating Hormone.
 - c) Progesterone

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MICROBIOLOGY

Q.P Code : AHS-109

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LONG ESSAY

2 X 10 = 20 Marks

1. Classify dermatophytes. Discuss the laboratory diagnosis of dermatophytoses.
2. Discuss the pathogenesis and laboratory diagnosis of Hepatitis B Virus infection.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Tissue culture in virus cultivation.
4. Pathogenesis of Rabies virus infection.
5. Sporotrichosis.
6. Infections caused by Epstein Barr virus.
7. Interferons.
8. Mycetoma.
9. Laboratory diagnosis of dengue viral infection.
10. Histoplasma capsulatum.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. MMR vaccine.
12. Draw a neat diagram of influenza virus.
13. Oral thrush.
14. Name three fungi which cause superficial fungal infections.
15. Mycotoxins.
16. Parvo virus.
17. Molluscum contagiosum.
18. Lactophenol cotton blue mount.
19. Rhizopus.
20. Infections by Adenovirus.
21. Characteristic features of PRIONS.
22. Fungal hyphae.

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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. Enlist the methods of detecting blood grouping. Mention the steps involved in donor selection and bleeding of donors.
2. Classify the chromosome types based on centromere location. Discuss the different banding techniques in detail.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Mention the different methods of antigen retrieval techniques and describe in detail any one of them.
4. Mention the advantages and disadvantages of image analysis techniques.
5. Write about the principle of laminar air flow equipment, the merits and demerits.
6. What is autologous transfusion? What are the advantages and disadvantages?
7. Coomb's test and its significance.
8. List the anticoagulants used in blood bank. Mention the advantages and disadvantages of individual types.
9. Describe cytological features of benign and malignant breast lesion.
10. What are HLA antigen and mention the uses of HLA matching.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Name the different blood components and one use for each type.
12. Mention the uses of immortalized cell lines.
13. Barr body.
14. Uses of inverted microscope.
15. What are oncogenes? Give two examples.
16. What is subculturing. Mention two methods to do subculture.
17. How are platelets preserved? What is its shelf life?
18. Describe the normal histology of thyroid gland.
19. Mention different enzymes used in enzymatic digestion of tissue culture.
20. Mention the parts of chromosome.
21. Mention three common uses of immunofluorescence.
22. List the types of blood groups.