

June-2023

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. in Medical Laboratory Technology

[Time: 3 Hours]

[Max. Marks: 80]

III SEMESTER

PAPER - I (Fundamentals of Biochemistry I)

QP CODE: 8330

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. What are Hemoglobin? How hemoglobin is synthesized in the body? Add a note on Jaundice

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Gout
3. Mechanism of action of insulin
4. Describe the principle and significance of Benedict's test for urine sugar.
5. Balanced diet
6. Fatty acids and lipotropic factors.
7. Write a note on the concept of quality control applied in the laboratory.
8. Define and mention the use of electrophoresis technique.
9. Str and fun of IG
10. Detoxification

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Tumor markers
12. What is the clinical significance of proteinuria?
13. Name the Good Cholesterol and Bad Cholesterol and mention their normal ranges.
14. Write Full form and normal ranges for 1. FBS. 2. PPBS. 3. RBS.
15. Lipoproteins
16. Define epimers
17. What is the principle of colorimeter?
18. Mention the wavelengths used in the visible range inside the colorimeter instrument.
19. Atherosclerosis
20. Galactosemia
21. BMR

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III SEMESTER

PAPER - II (Fundamentals of Microbiology I)

QP CODE: 8331

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Define and classify immunity. Write in detail about acquired immunity.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Autoclave
3. Koch postulates
4. Immunoglobulin M
5. Enrichment media
6. Bacterial cell wall
7. Type IV Hypersensitivity
8. ELISA
9. OT sterilisation
10. Hospital acquired infections

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Name three gram positive bacilli
12. Name three chemical disinfectants
13. Urine sample collection
14. Passive immunity
15. Name the categories of biomedical waste
16. Autoimmunity
17. Name three transport media
18. Name three types of infection
19. Name three killed vaccines
20. Hand hygiene
21. Name three types of microscope

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III SEMESTER

PAPER - III (Haematology & Clinical Pathology I)

QP CODE: 8332

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Name different methods of Blood Collection and the various anticoagulants used in hematology.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Enumerate the various methods of estimating Hemoglobin. Describe any one in detail.
3. Waste disposal in pathology laboratory
4. Describe morphology of different types of WBCs with diagrams.
5. Define Anemia. Describe laboratory findings in Iron deficiency anemia.
6. Leishman Stain – Preparation and Staining Procedure
7. Describe about the laboratory safety measures.
8. Write a note on record keeping in laboratory
9. Describe the tests for protein in urine
10. ESR – methods of estimation and normal values.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Enumerate the Red cell indices. Write the normal values for each.
12. What is normal total WBC count. Write two causes of leukocytosis.
13. Mention the different methods of blood grouping.
14. Name the hemoparasites.
15. List three stains used in cytology.
16. Write the causes of glucosuria .
17. What is PAP smear, write its significance.
18. Enlist 3 different sites for bone marrow aspiration.
19. Write 3 causes of hematuria.
20. What is APTT? Mention two conditions where it is elevated.
21. List the uses and advantages of FNAC.