

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. Medical Laboratory Technology

[Time: 3 Hours]

[Max. Marks: 80]

V SEMESTER

PAPER - I (Clinical Biochemistry I)

QP CODE: 8530

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Explain in detail the reactions of urea synthesis. Mention normal plasma urea level & common causes of increased urea level [6+1+3]

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Role of medical lab technologists
3. Biomedical waste management
4. Steps in automated systems in clinical Biochemistry Lab
5. Thyroid function tests
6. Gluconeogenesis
7. Hazards & accidents in clinical Biochemistry lab
8. Cardiac markers
9. Explain Point of care testing with one example
10. Enzymes profile for liver diseases

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Sample collection for ABG analysis
12. Galactosemia
13. Pre- analytical variables
14. Phenylketonuria
15. Preparatory steps for Accreditation of the Lab
16. Transmethylation
17. Clinical application of denaturation of proteins
18. Pre-phlebotomy automation
19. First aid in clinical Biochemistry lab
20. NPN substances
21. List the glycogen storage disorder

July - 2023

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V SEMESTER

PAPER - II (Medical Microbiology I)

QP CODE: 8531

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Describe the life cycle, pathogenesis, laboratory diagnosis and treatment of Entamoeba infection.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Laboratory diagnosis of Plasmodium falciparum
3. Dermatophytes
4. Classify Fungi. Add a note on Antifungal agents
5. Candidiasis
6. Giardiasis
7. Describe the laboratory diagnosis of filariasis
8. Laboratory diagnosis of Ascaris lumbricoides
9. Mycetoma
10. Slide Culture

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Name three fungi causing for eye infections
12. Name different concentration methods used for stool specimen.
13. Name the different species of Taenia
14. India Ink preparation
15. Name the parasitic zoonotic diseases
16. Draw well labeled diagram of Egg of Hook worm
17. Name three trematodes
18. Name the species of aspergillus
19. Name three bile stained eggs
20. Dimorphic fungi
21. Mycotoxins

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V SEMESTER

PAPER - III (Blood Bank & General Pathology I)

QP CODE: 8532

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. What is frozen section analysis and how is it used in histopathology? Discuss the advantages and limitations of frozen section analysis

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Routine H&E staining: What is the principle of routine H&E staining in histopathology? How this staining is used to visualize tissue structures?
3. What are the techniques used to preserve and display specimens in a museum setting?
4. Definition, Pathogenesis, Morphologic features of thrombi
5. Chemical mediators of inflammation: List of chemical mediators, Source, Functions of mediators
6. Write about difference between dry & wet gangrene
7. Types of microtome – uses of microtome
8. Mention clearing agents -, its uses & most commonly used clearing agent?
9. Discuss the process of blood collection, testing, storage, and distribution.
10. How does cross matching help ensure safe blood transfusion?

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Metastatic calcification
12. Blood grouping & Cross matching
13. Mention screening tests for whole blood & its components
14. Mention the physical examinations of urine
15. Mention 3 common blood donors reactions
16. Dysplasia means?
17. Biomedical waste management in Blood bank
18. Why platelet concentrate stored at agitator?
19. What are the questions in donor consent form?
20. How will monitor while blood transfusion
21. What are the conditions required for proper storage of different blood components?