

7/24

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. List clinically important serum enzymes in diagnosis of diseases. Add a note on enzyme profile in liver diseases, Myocardial Infarction. [2+4+4]

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Explain Ketogenesis & ketoacidosis.
3. Glycogen storage disorder
4. Explain Principle, steps, advantages & disadvantages of Point of care testing for blood glucose estimation
5. Describe functions of thyroid hormones. Thyroid function tests.
6. β - Oxidation of fatty acid
7. Non protein nitrogenous (NPN) substances
8. Digestion & absorption of lipids
9. Blood Sample collection for biochemical investigations & reasons for rejection of the sample
10. Name Laboratory accreditation bodies. Note on preparation of lab to get NABL accreditation.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. List the hormones acting through intracellular receptors
12. Internal audit of lab
13. Maintenance of autoanalyzer.
14. Role of carnitine in β – oxidation
15. Phenylketonuria
16. Internal Quality control
17. Interpretation of flags
18. Maple syrup urine disease
19. Galactosemia
20. Describe the safety measures to prevent laboratory hazards.
21. List the lipid storage disorders.

3/7/24

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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. List the malaria parasites. Describe life cycle and lab diagnosis of Plasmodium falciparum

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Stool concentration methods
3. Describe Life cycle, Pathogenesis and Laboratory diagnosis of hook worm infection
4. Hydatid cyst
5. Laboratory diagnosis of candida infection
6. Free living amoebae
7. Slide culture method
8. Cryptococcosis
9. Dermatophytosis
10. Mycetoma

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Enumerate three fungal media
12. Name the dimorphic fungi
13. Draw a neat labeled diagram of E. histolytica trophozoite
14. Name three Non-Bile-stained Eggs
15. Enumerate three vector borne parasitic infection
16. NIH swab
17. Name the Aspergillus species
18. Enumerate three fungi causing eye infection
19. Enumerate the opportunistic infections
20. Classification of fungi
21. Enumerate Antifungal agents

5/07/2021

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B.Sc. Medical Laboratory Technology

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[Max. Marks: 80]

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 are transfusion transmitted infections? Discuss in detail about the screening tests done on donated blood.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Write in detail about coombs test and its clinical significance.
3. Mention the various blood group systems and methods of blood grouping.
4. Write in detail about staining of cytological specimens
5. What is FNAC? Describe the advantages of FNAC.
6. Describe the tests for detection of ketone bodies in urine
7. Describe the techniques of collection of specimens for cervical cytology study and the normal cellular components.
8. Describe the various methods of cell block preparation.
9. Name the various blood components and their preparation & storage.
10. Mention the criteria of donor selection for blood donation

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Name various anticoagulant- preservatives solutions used in blood bag with their shelf life
12. Name the fixatives used in cytology
13. Major cross matching
14. Mention List three reasons of donor deferral
15. Mention the normal cellular components of breast FNAC
16. Write few disadvantages of FNAC
17. Name the methods of estimation of ESR with the normal values.
18. Describe the procedure of urine sediment preparation for cytological examination.
19. What is the normal volume of urine & what is oliguria.
20. What is Proteinuria? Name the tests used to detect it
21. Describe the process of processing sputum sample for cytological examination.