Jan-26

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. Describe the automation in clinical laboratory in detail. Add a note on Laboratory Information System (LIS). (6+4)

Short Essays: (Any – 8) **5 X 8 = 40 Marks**

2. Explain the ketone body formation.
3. Write a note on the functions and clinical importance of HDL and LDL.
4. Name the NPN substances and its importance in diagnosis of renal diseases.
5. POCT.
6. Explain hyperthyroidism – causes, biochemical findings, and clinical features.
7. Glycogen storage diseases.
8. Discuss quality assessment schemes and role of EQAS in maintaining laboratory quality.
9. Describe sample transport and the precautions to be taken during transport of biological samples.
10. Explain the role of enzymes in liver diseases with examples.

Short Answers: (Any – 10) **3 X 10 = 30 Marks**

11. Albinism
12. Principle and importance of Beta Oxidation of Fatty Acids
13. Phenylketonuria
14. List the National and International laboratory Accreditation bodies.
15. Digestion of lipids.
16. Internal Audit of the lab.
17. Validation of Laboratory Reports.
18. Cardiac markers.
19. Analytical errors.
20. Mention three safety symbols used in laboratories.
21. Write the normal range of serum total cholesterol. Mention two causes of hypocholesterolemia

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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. Cryptococcosis
3. Laboratory diagnosis of dermatophytic infections
4. Describe morphology, Life cycle and of Taenia solium
5. Stool concentration methods
6. Describe Life cycle, Pathogenesis and Laboratory diagnosis round worm infection
7. Candidiasis
8. Hydatid cyst
9. Filarial infection
10. Aspergillosis

Short Answers: (Any – 10) **3 X 10 = 30 Marks**

11. Name three free living amoebae
12. Name three Non-bile-stained Eggs
13. Mycetoma
14. Name the media used in growing fungi
15. NIH swab
16. Enumerate three fungi causing ear infection
17. Name three antifungal agents
18. Name the opportunistic fungal infection
19. KOH preparation
20. Draw neat labelled diagram of Entamoeba histolytica
21. Enumerate three vector borne parasitic infection

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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. Discuss about blood grouping systems. Write a note on donor selection criteria and quality control in blood bank. (4+3+3)

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Describe the steps of tissue processing
3. Discuss Pap staining- principle, procedure and interpretation
4. Direct and Indirect Coombs test
5. Therapeutic phlebotomy.
6. Cross matching: Definition and procedure
7. Collection and processing of any body fluid.
8. Describe the investigations in a case of mismatched blood transfusion reactions
9. Discuss about the blood components-preparation and uses
10. Discuss about decalcification.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Benedicts test - principle, procedure and interpretation
12. RBC indices.
13. What is ESR? Write its normal range
14. Preservatives used for storage of urine samples.
15. Rothera test
16. Urine pH and its significance
17. Name any three odors of urine and its significance.
18. What is FNAC? Write the advantages of FNAC.
19. Name any three crystals seen in urine.
20. CPDA
21. How to prepare 5% cell suspension.