

**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 cholesterol biosynthesis in detail

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. What is ketolysis and its significance?
3. What is Galactosemia and mention the defective enzyme. Write the clinical features.
4. Explain the mechanism of action of steroid hormones.
5. What is beta oxidation? Describe the phases in brief.
6. What is phenylketonuria and write the defect and its clinical features
7. Cardiac markers in MI.
8. What is Creatinine? Write the reference range and write 4 causes for its elevated levels
9. Define lab errors. Classify them and give one example for each type.
10. Hypothyroidism and hyperthyroidism- clinical features and lab diagnosis

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Name any 4 different enzymes involved in lipids digestion.
12. Compounds derived from Cholesterol
13. Name the enzymes estimated in pancreatitis and their normal ranges
14. Lab safety measures
15. What is uric acids and write 2 causes for elevated levels
16. Classify hormones
17. What is the importance of SOP in the laboratory
18. Ketosis
19. What is albinism and what is the cause
20. Note on laboratory information system
21. Quality control

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## **B.Sc. Medical Laboratory Technology**

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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 pathogenesis and Laboratory diagnosis of dermatophytic infections

#### **Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Cryptococcal infection
3. Laboratory diagnosis of amoebic dysentery.
4. Trichomoniasis
5. Stool concentration methods
6. Describe Life cycle, Pathogenesis and Laboratory diagnosis of hook worm infection
7. Laboratory diagnosis of Malarial infection
8. Hydatid cyst
9. Filarial infection
10. Aspergillosis

#### **Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Germ tube test
12. Name three Non Bile-stained Eggs
13. DEC provocation test
14. Enumerate three Nematode
15. Enumerate three fungi causing ear infection
16. Mycetoma
17. Name three dimorphic fungi
18. Name three free living amoebae
19. Enumerate three fungi culture media
20. Draw neat labelled diagram of Giardia lamblia trophozoite
21. India ink preparation

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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.

**10X1 = 10 Marks**

**Long Questions**

1. Name different components of the blood. Write in detail about the preparation, storage, shelf life of components prepared in the blood bank. (2+4+2+2=10)

**5 X 8 = 40 Marks**

**Short Essays: (Any – 8)**

2. Adverse reactions in blood transfusion.
3. Cross matching: Definition, principle, procedure
4. Therapeutic phlebotomy-Indications and procedure.
5. Pap smear- procedure, processing of sample and staining.
6. Fixatives and stains used in histopathology
7. Write in detail about the donor selection criteria for blood donation.
8. Coombs test- Principle, types, procedure, indications and interpretation
9. Describe the steps of tissue processing
10. Discuss about collection, processing and staining of any body fluid

**3 X 10 = 30 Marks**

**Short Answers: (Any – 10)**

11. Test done for diagnosis of malaria
12. What is FNAC? Write the advantages of FNAC.
13. 3 causes for proteinuria
14. TIBC
15. Enlist 3 causes for hematuria
16. Enlist 3 crystals seen in urine microscopy
17. Red cell indices
18. Benedict's test
19. Urine ketone bodies.
20. CSF findings in viral meningitis
21. Define: Anuria, Oliguria and Polyuria.