

QP Code:

Reg. No.:.....

**SECOND YEAR BSc MLT EXAMINATION**  
**(Model Question Paper)**  
**Biochemistry - II**

**Time: 3 hrs**

**Maximum marks: 100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essays**

**(2x10=20)**

1. Discuss briefly the De novo synthesis of purine nucleotides (10)
2. Discuss various method of cholesterol estimation. Write any one method in detail (4+6=10)

**Short Notes**

**(10x5=50)**

3. CSF analysis
4. Gluconeogenesis
5. Urea cycle
6. Phenyl ketonuria
7. Energetics of TCA cycle
8. Importance compound synthesized from tryptophan
9. Fatty liver
10. Bile acid synthesis
11. Biuret method of total protein estimation
12. Functions of vitamin A

**Answer Briefly**

**(10x3=30)**

13. Cori's cycle
14. Significance of HMP pathway
15. Galactosemia
16. Polyamine synthesis
17. Role of vitamin K in coagulation
18. Functions of vitamin C
19. Niemann - pick disease
20. Biosynthesis of phosphatidyl serine
21. Role of biotin in fatty acid synthesis
22. Glucuronic acid pathway

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**SECOND YEAR BSc MLT EXAMINATION**  
**(Model Question Paper)**  
**General Microbiology**

**Time: 3 hrs**

**Maximum marks: 100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essays**

**(2x10=20)**

1. Enumerate bacterial enzymes detected in your lab. Discuss in detail. (2+8=10)
2. Enumerate the different methods of transmission of genetic material in bacteria. Describe each. (2+8=10)

**Short notes**

**(10x5=50)**

3. TSI
4. Modern anaerobic culture methods
5. typing of bacteria
6. selective media
7. classification of microorganisms
8. Germ free animals
9. Guinea pig
10. Euthanasia in lab animals
11. Lac operon
12. Turbidometric method of measuring bacterial growth

**Answer briefly**

**(10 x3=30)**

13. RCM
14. Enrichment media
15. Chocolate agar
16. Of test
17. PPA test
18. Postmortem examination of animals
19. Disposal of carcasses
20. Solidifying agents in culture media
21. Isolation of bacterial mutants
22. Genotypic and phenotypic variations in bacteria

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QP Code:

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**SECOND YEAR BSc MLT EXAMINATION**

(Model Question Paper)

**Parasitology and Entomology**

**Time: 3 hrs**

**Maximum marks: 100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essays**

**(2x10=20)**

1. Describe the morphology life cycle pathogenesis clinical features and laboratory diagnosis of malaria (10)
2. Classification of insects of medical importance. Discuss briefly binomics of anopheles (7+3=10)

**Short Notes**

**(10x5=50)**

3. Hydatid cyst
4. Schistosoma haematobium
5. Toxoplasma gondii
6. Pathogenic free living amoeba
7. Laboratory diagnosis of kala-azar
8. Transmission of infection by insects
9. Insecticides and resistance
10. Cyclopes and its control
11. Sarcoptes scabiei
12. Mosquito control measures

**Answer Briefly**

**(10x3=30)**

13. Bile stained ova
14. Diphylobothrium latum
15. Balantidium coli
16. Trichomonas vaginalis
17. Xeno diagnosis
18. Integrated vector control
19. Head louse
20. Biological control
21. Life cycle of hard tick
22. Rat flea

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QP Code:

Reg. No.:.....

**SECOND YEAR BSc MLT EXAMINATION**

(Model Question Paper)

**Haematology and Clinical Pathology**

**Time: 3 hrs**

**Maximum marks: 100**

- Answer all questions
- Draw diagrams wherever necessary

**Essays**

**(2x10=20)**

1. Define leukemia. Classify it. Explain the blood and bone marrow findings in CML  
(2+3+5=10)
2. What is HCG. Mention HCG levels at various stages of pregnancy. Explain different card tests used for the detection of pregnancy.  
(1+4+5=10)

**Short Notes**

**(10x5=50)**

3. Urine preservatives
4. Prothrombin time
5. Bence jones protein
6. Examination of blood for parasites
7. Hbs
8. Fibrin degradation products
9. Laboratory diagnosis of iron deficiency anaemia
10. Semen analysis
11. Leukaemoid reactions
12. Myeloperoxidase stain

**Answer briefly**

**(10x3=30)**

13. Detection of ketone bodies in urine
14. Bleeding time
15. Fouchet's test
16. CSF cell count
17. Measurement of faecal fat
18. Haemopilia
19. Occult blood in stool
20. Organised sediments of urine
21. Automated blood cell counter
22. Ham's test

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**SECOND YEAR BSc MLT EXAMINATION**  
**(Model Question Paper)**  
**Biochemistry - II**

**Time: 3 hrs**

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**Essays**

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**Answer Briefly**

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**SECOND YEAR BSc MLT EXAMINATION**  
**(Model Question Paper)**  
**General Microbiology**

**Time: 3 hrs**

**Maximum marks: 100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essays**

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1. Enumerate bacterial enzymes detected in your lab. Discuss in detail. (2+8=10)
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**Short notes**

**(10x5=50)**

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5. typing of bacteria
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8. Germ free animals
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11. Lac operon
12. Turbidometric method of measuring bacterial growth

**Answer briefly**

**(10 x3=30)**

13. RCM
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**SECOND YEAR BSc MLT EXAMINATION**

(Model Question Paper)

**Parasitology and Entomology**

**Time: 3 hrs**

**Maximum marks: 100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essays**

**(2x10=20)**

1. Describe the morphology life cycle pathogenesis clinical features and laboratory diagnosis of malaria (10)
2. Classification of insects of medical importance. Discuss briefly binomics of anopheles (7+3=10)

**Short Notes**

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3. Hydatid cyst
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8. Transmission of infection by insects
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10. Cyclopes and its control
11. Sarcoptes scabiei
12. Mosquito control measures

**Answer Briefly**

**(10x3=30)**

13. Bile stained ova
14. Diphylobothrium latum
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**SECOND YEAR BSc MLT EXAMINATION**

(Model Question Paper)

**Haematology and Clinical Pathology**

**Time: 3 hrs**

**Maximum marks: 100**

- Answer all questions
- Draw diagrams wherever necessary

**Essays**

**(2x10=20)**

1. Define leukemia. Classify it. Explain the blood and bone marrow findings in CML  
(2+3+5=10)
2. What is HCG. Mention HCG levels at various stages of pregnancy. Explain different card tests used for the detection of pregnancy.  
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**Short Notes**

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6. Examination of blood for parasites
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10. Semen analysis
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12. Myeloperoxidase stain

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**(Model Question Paper)**  
**Biochemistry - II**

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**General Microbiology**

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**Haematology and Clinical Pathology**

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