

QP Code:

Reg. No.:.....

FOURTH YEAR BSc MLT DEGREE EXAMINATION
(Model Question Paper)

Biochemistry - IV

Time: 3 hrs

Maximum marks: 100

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

Essays

(2x10=20)

1. Describe the different mechanisms by which acid base balance is maintained in our body.
2. Explain the iron metabolism in the body and its disorders

Short Notes

(10x5=50)

3. Mutations
4. Genetic code
5. Post translational modification
6. Calcium homeostasis
7. Inhibitors of transcription and translation
8. Glomerular function tests
9. 17-ketosteroids
10. Levy-Jenning chart
11. Discrete auto analyzers
12. Estimation of VMA

Answer Briefly

(10x3=30)

13. Wilson's disease
14. D-xylose test
15. Phosphorus estimation
16. Serum electrolytes
17. Hepatic jaundices
18. Cardiac profile
19. Pre-analytical variables
20. Urinary oestriol
21. Blood gas analysis
22. Anterior pituitary hormones

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FOURTH YEAR BSc MLT DEGREE EXAMINATION
(Model Question Paper)

Mycology, Virology and Applied Microbiology

Time: 3 hrs

Maximum marks: 100

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

Essays

(2x10=20)

1. Enumerate hepatitis viruses. Explain the laboratory diagnosis of viral hepatitis (1+9 =10)
2. Define nosocomial infections. Enumerate the etiological agents, laboratory diagnosis and control of nosocomial infections (1+2+5+2=10)

Short notes

(10x5=50)

3. Dermatophytes
4. Dimorphic fungi and its infections
5. Automation in microbiology
6. Confirmatory tests for HIV infection.
7. Bacteriological examination of water sample
8. Detection of viral growth in cell culture.
9. Rhinosporidiosis
10. Dengue fever
11. Antinuclear antibody tests
12. PCR and its application in diagnostic microbiology

Answer briefly

(10 x3=30)

13. Otomycosis
14. Rabies vaccine
15. Epstein bar- virus
16. Prions
17. Settle plate method
18. Corn meal agar
19. RFLP
20. Methylene blue reduction test
21. Kyasanur forest disease
22. Calcofluor white staining

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FOURTH YEAR BSc MLT DEGREE EXAMINATION
(Model Question Paper)

Histotechnology and Cytogenetics

Time: 3 hrs

Maximum marks: 100

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

Essays

(2x10=20)

1. Explain the principle, procedure and applications of immunohistochemistry (2+5+3 =10)
2. Explain the steps involved in the metaphase preparation from blood and bone marrow specimens

Short Notes

(10x5=50)

3. Decalcification
4. Museum technique
5. Microtome
6. Cleaning agents
7. Connective tissue stains for collagens
8. Klinifilter's syndrome
9. FISH
10. Immuno fluorescent technique in histopathology
11. Chromosomal changes in cancers
12. Grouping of human chromosomes

Answer Briefly

(10x3=30)

13. Dehydrating agents
14. Turner's syndrome
15. Mitogens
16. 'Y' bodies
17. GTG banding
18. Section adhesive
19. Resin embedding media
20. Demonstration of melanin in tissues
21. Cryostat
22. Histokinitte
