

B.Sc. Allied Health Sciences Second Year (Semester-III)

February-2018 Examination

B.Sc. Medical Laboratory Technology (MLT)

Time : 2.30 Hrs.

[Max. Marks : 80]

BIOCHEMISTRY

Q.P Code : AHS-105

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Describe glycolysis, steps and energetics.
2. Give an account of sources, RDA, functions, deficiency symptoms of Vit-D.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Glycogenolysis.
4. Ketogenesis.
5. Structure of hemoglobin and its functions.
6. Factors affecting enzyme activity.
7. GTT
8. Explain the classification of enzymes.
9. Osmolarity and its significance.
10. Coenzymes.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Define surface tension. Write significance.
12. Hemoglobin derivatives.
13. Functions of albumin.
14. Normal serum level of
 1. Cholesterol
 2. TAG
15. Significance of 2.3 BPG
16. Scurvy.
17. Name compounds formed from cholesterol.
18. RICKETS
19. Write two functions of Vit.K
20. Obesity.
21. Source and requirement of
 1. Folic acid
 2. NIACIN
22. Activation energy.

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MICROBIOLOGY

Q.P Code : AHS-109

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Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Classify mycobacteria. Describe the laboratory diagnosis of pulmonary tuberculosis.
2. Discuss the pathogenesis and laboratory diagnosis of gas gangrene.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Infections caused by staphylococcus aureus.
4. CAMP test.
5. Anthrax toxin.
6. Laboratory diagnosis of meningococcal meningitis.
7. Pathogenesis of pharyngeal diphtheria.
8. Immunoprophylaxis of tetanus.
9. Lepromin test.
10. Gram staining.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Enumerate three bacteria causing upper respiratory tract infection.
12. ASLO test.
13. Slide coagulase test.
14. Non gonococcal urethritis.
15. Clostridium difficile.
16. M 'Fadysan's reaction.
17. Elek's test.
18. Enumerate three laboratory tests to identify streptococcus pneumonia.
19. Enterococcus
20. Bacillus cereus.
21. Viridians group of streptococci.
22. Methicillin resistant staphylococcus aureus (MRSA).