

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

February / March -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 the reactions of TCA cycle. Add a note on its energetics.
2. Explain chemistry, sources, RDA, function and deficiency manifestations of vitamin A.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Describe competitive enzyme inhibition with suitable examples.
4. Mention the enzyme defective in
 - a. Phenyl ketonuria
 - b. Albinism
 - c. Alkaptonuria
 - d. Homocystinuria
 - e. Maple syrup urine disease
5. Lipoproteins – types, functions and reference ranges.
6. Enumerate the steps of Uric acid formation.
7. Functions and deficiency manifestations of vitamin C.
8. Explain DAM method of estimation of blood urea.
9. What are ketone Bodies? Describe the synthesis of ketone bodies.
10. Diagnostic importance of enzymes.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Vongiereke's disease.
12. Parts of Colorimeter.
13. Fatty Liver.
14. Compounds synthesized from cholesterol.
15. Phenylketonuria.
16. HMP shunt pathway and its significance.
17. Mention any three biochemical function of vitamin D.
18. Name any three Hyperglycemic hormones.
19. Normal ranges of the following 1. Urea 2. Creatinine 3. Cholesterol
20. Beri-beri.
21. Co-enzymes of 1. Niacin 2. Thiamine 3. Riboflavin
22. Creatinine clearance and its Significance.

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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. Enumerate agents causing watery diarrhea. Describe the laboratory diagnosis of cholera.
2. Name spirochetes of medical importance. Describe laboratory diagnosis of syphilis.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Enteropathogenic Coli.
4. Laboratory diagnosis of enteric fever.
5. Significant bacteruria.
6. Laboratory diagnosis of bacillary dysentery.
7. Infections caused by Escherichia.
8. Infections caused by Escherichia coli.
9. EL TOR vibrios.
10. Weil's disease.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Pigments produced by pseudomonas aeruginosa
12. Two rapid tests for diagnosis of Cholera.
13. Nichols strain of Treponema pallidum.
14. Name four organisms causing urinary tract infection.
15. Mention three characteristics of Shigella.
16. Name three diseases caused by klebsiella.
17. Name four nonlactose fermenting organisms.
18. Name four culture media used for salmonella.
19. Name diarrheagenic coli.
20. Name four serological tests used in diagnosis of leptospirosis.
21. Name three lactose fermenting organisms.
22. Cholera red reaction.

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