

**B.Sc. Allied Health Sciences**  
**Second Year Semester-III (CBCS Scheme)**  
August - 2018 Examination  
**B.Sc. Medical Laboratory Technology (MLT)**

Time : 2.30 Hrs.

[Max. Marks : 80]

**BIOCHEMISTRY-II**

**Q.P Code : MLT302CC**

*Your answers should be specific to the questions asked.  
Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Define glycolysis. Enumerate the reactions of aerobic glycolysis and add a note on its energetics.
2. Describe Urea cycle and add a note on its regulation.

**SHORT ESSAY (Answer any Six)**

**6 X 5 = 30 Marks**

3. Ketone body synthesis.
4. Define Transamination. Describe the mechanism and give examples of transamination.
5. Catabolism of heme.
6. Digestion and absorption of lipids.
7. Homeostasis of blood calcium levels.
8. What is porphyria? Classify them and describe any two porphyrias in detail.
9. Role of liver in metabolism.
10. Describe the digestion and absorption of lipids.

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

11. Albinism.
12. Define substrate level phosphorylation.
13. Mention three iron containing proteins.
14. Compounds derived from cholesterol.
15. Functions of selenium.
16. Mention three causes of gout.
17. Mention three products obtained from Glycine.
18. Mention three zinc containing enzymes.
19. Mention the importance of HMP shunt pathway.
20. Mention three factors affecting the iron absorption.
21. Inhibitors of electron transport chain.
22. Write the reference range for: (1) serum glucose (2) serum triglycerides and (3) serum LDL.