

Ref no. Ex/Pharm/T/225/97/2019

Bachelor of Pharmacy Examination, 2019

2nd year, 2nd semester

Applied Biochemistry-I

Time- 3 hours

Full marks-100

Answer any five questions taking at least two from each group

Group-A

1. Write notes on 5 X 4=20
 - a. Alpha-tocopherol
 - b. Ketone bodies
 - c. ω -Oxidation of fatty acids
 - d. Chylomicron
2. (a) Role of vitamin A on vision 10+10=20
(b) Transformation of ergosterol to cholecalciferol (Vit D₃)
3. β - oxidation of even and odd fatty acids 20

Group- B

4. Define Glycogenesis. Describe the pathway of Gluconeogenesis. What is biochemical importance of Gluconeogenesis. Describe the pathway of TCA cycle. 2+10+2+6=20
5. What mean by carbohydrate metabolism? Describe the metabolic pathway of Glycolysis. What is the significance of TCA cycle? What is energy calculation of Glycolysis? 2+10+4+4=20
6. Write a short note on i) D/L isomer of glucose ii) Stereoisomer of carbohydrate iii) Mutarotation iv) Optical isomer of glucose. 5X4=20