

D. Pharm Part - I

E. R. 1991

2022(II)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE

Answer the questions serially and continuously

Subject: BIO-CHEMISTRY & CLINICAL PATHOLOGY (Theory)

Full Mark -80

Time -3 Hrs.

(Answer any five questions including question No. 1)

1. **A) Define the following terms:** (1x20)

i) Ketone bodies	ii) Bilirubin	iii) Triglycerides
iv) Positive nitrogen balance	v) Polydipsia	vi) Electron transport chain
vii) Hyper vitaminosis D	viii) Obesity	ix) Atherosclerosis
x) Lipoprotein	xi) Tetany	xii) Polycythaemia
xiii) ESR	xiv) Thrombocytopenia	xv) Macromolecules
xvi) Rancidity	xvii) Alkaptonuria	xviii) HDL
xix) SGPT	xx) AST	
2. Define Glycolysis & describe the steps involved in Embden Meyerhof Pathway with its energy calculation. (1+9+5)
3. What are the normal & abnormal constituents of urine? Enumerate the abnormal constituents of urine with their clinical significance. (5+10)
4. Describe the role of minerals (any five) in our life process. (5x3)
5. a) Define & classify Carbohydrate. Describe different chemical reactions of Monosaccharide. (1+4+5)
b) Briefly describe different Qualitative tests for Carbohydrates. (5)
6. Define enzymes. Write down classification, properties and specificity of enzymes with suitable examples. (2+4+4+5)
7. **Write short notes any THREE of the following:** (5x3)

i) Urea Cycle	ii) Sickle Cell Anaemia
iii) Biological functions of Protein	iv) β oxidation of Fatty acid
v) Functions of blood	