

ODISHA STATE BOARD OF PHARMACY

12.02.2024

D. Pharm Part - I

E. R. 1991

2023(I) Examination

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. Define the following terms: (1x20)
a) Apo enzyme b) Haematuria c) Lipoprotein d) Glycogenesis
e) Holo Enzyme f) Glycosuria g) Leucopenia h) Polyuria
i) Tetany j) Inhibitors k) Rancidity l) Hypervitaminosis D
m) Bilirubin n) Polydipsia o) Atherosclerosis p) Positive nitrogen balance
q) Lymphocytosis r) Kwashiorkor s) Molisch's test t) Saponification value
2. a) Write the chemical properties of Fax & Oils. (5)
b) Describe the beta-oxidation of fatty acids. (5)
c) Write a note on diseases due to disorders of fat metabolism. (5)
3. What is Normal & Abnormal constituents of urine? Enumerate the abnormal constituents of urine with clinical significance? (10+5)
4. a) Define and classify enzymes and briefly mention the different diagnostic application of enzymes. (2+4+4)
b) Write a short note on factors affecting enzyme action. (5)
5. Define Glycolysis & describe the steps involved in Embden Meyerhof Pathway with its energy calculation. (1+9+5)
6. a) What is a lymphocyte? Describe the difference between T& B Lymphocytes. What is the role of Blood platelets in health & diseases? (1+4+5)
b) Short note on Sickle Cell Anaemia (5)
7. Describe the role of minerals (any five) in our life process. (5x3)

