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(LD 4254)

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Sub Code: 4254

FIRST B.PHARM. EXAM
Paper IV – BIOCHEMISTRY
Q.P. Code : 564254

Time : Three hours

Maximum : 100 marks

I. Elaborate on: **(2X20=40)**

1. a) Write the source, functions, deficiency manifestations of vitamin-B6 and riboflavin.
b) Define hyperbilirubinaemia? Explain its types, causes and treatment.
2. Define HMP Shunt? Explain it in detail with its significance & reactions? Briefly explain about glycogen storage diseases.

II. Write notes on: **(8X5=40)**

1. Explain about mutation and its types
2. Nitrogen balance
3. List out the liver function tests & explain about any one
4. Vitamin E properties and functions
5. Biosynthesis of Porphyrins
6. Significance of TCA Cycle
7. Coenzyme functions of pyridoxine
8. Classification of enzymes

III. Short Answers: **(10X2=20)**

1. Functions of thyroid hormones – any four
2. Define gluconeogenesis and glycolysis
3. Name any two reduction potentials & its functions
4. Peroxisomal oxidation
5. Hydrolysis of pattern of starch
6. List out the abnormal constituents of urine
7. Define about allosteric inhibition with one example
8. Define trace elements with examples
9. Causes of ketosis
10. Scurvy



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