(5+5=10)

(5+5=10)

(5+5=10)

(5+5=10)

(Maximum marks : 80)

- [Note: 1. Answer any eight questions.
 - 2. All questions carry equal marks.]

Marks

- 1. (a) Define and classify carbohydrates with examples. Give any three colour reactions of carbohydrates.
 - (b) Give a brief description of polysaccharides. 28 (5+5=10)
- (a) Explain the term essential amino acid with examples. Add a note on important colour reactions of proteins
 - (b) Describe the structure of proteins.
- (a) Write the importance of essential fatty acids.
 - (b) What is dehydration? How will you correct it? (5+5=10)
- (a) Explain the absorption, metabolism and physiological functions of calcium in our body.
- (b) Discuss the significance of phospholipids.
- (a) Explain the factors affecting enzyme action.
 (b) Describe the biochemical functions of fat soluble Vitamins.
- 6. (a) Explain the role of lymphocytes in our body.
 - (b) Enumerate the abnormal constituence of urine. Explain its clinical significance. 210 / 214
- 7. (a) Explain the reactions of beta oxidation.
- (b) Describe the disorders of plasma lipoproteins.
- 8. (a) Explain pentose phosphate pathway
 - (b) Write briefly on:
 - (i) AIDS (ii) Oxidative deamination. (%
- 9. (a) Define the terms:
 - (i) Glycolysis (iii) Gluconeogenesis;
 - (ii) Glycogenolysis (iv) Atherosclerosis,
 - (b) Explain Kerbs cycle and its energetics. 162
- 10. (a) Describe the biochemical functions, daily requirement and deficiency disease of Vitamin C.
 - (b) Explain the colour reactions of Cholesterol. Record

(5+5=10)

(5+5=10)

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