



- a) Parathyroid
- c) Aldosterone

- b) Calcitonin
- d) Thyroid

**Q.2 (a) Fill in the blanks**

- (1) Glucose and Mannose is \_\_\_\_\_ epimeric pair.
- (2) RNA have \_\_\_\_\_ sugar.
- (3) Synthesis of haemoglobin need \_\_\_\_\_ mineral
- (4) Riboflavin exists in two active coenzymes FMN and \_\_\_\_\_

**Q.2 (a) Write True and False**

- (1) Starch is plant storage oligosaccharide.
- (2) The structure of every protein is programmed by RNA.
- (3) All vitamins are not water-soluble.
- (4) Uracil has only a single ring.

**Q.3 Answer any TEN from the following:**

- (1) Define oligosaccharide with examples.
- (2) Define epimer, anomer and isomer with examples.
- (3) Draw the structure of Lactose.
- (4) Write little difference between Amylose and Amylopectin.
- (5) Differentiate nucleotide and nucleoside.
- (6) Write importance of tRNA.
- (7) Define vitamins and write importance of vitamin E.
- (8) Write food sources for vitamin C and E.
- (9) What are the two natural form of vitamin K? Write their food sources.
- (10) Define mineral with examples.
- (11) Write about food sources of Iodine.
- (12) What are dietary sources of Chloride and Potassium?

**Q.4 Write Answer in detail (Any four)**

- (1) What is oligosaccharide? Write detail fractions of Carbohydrates.
- (2) Write notes on Starch and Cellulose with structure.
- (3) Describe Watson-Crick model of DNA structure.
- (4) Write importance and differences of RNA and DNA.
- (5) Describe biochemical functions, daily requirements and sources of vitamin D.
- (6) Describe functions, daily requirements of Ascorbic acid.
- (7) Write Biochemical functions of calcium and Phosphorus.
- (8) Discuss about functions, dietary sources of Sodium, magnesium and Iron.

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