



**LONG ESSAY**

**1 X 10 = 10 Marks**

1. Describe the sources, biochemical functions, daily requirement and deficiency manifestations of vitamin C.

**SHORT ESSAY**

**3 X 5 = 15 Marks**

2. What is basal metabolic rate (BMR)? Write briefly on the various factors affecting BMR
3. What are mucopolysaccharides? Describe the functions of various mucopolysaccharides
4. Name different types of immunoglobulin and their functions

**SHORT ANSWERS**

**5 X 3 = 15 Marks**

5. What are the causes and metabolic derangements of metabolic acidosis?
6. Name the essential fatty acids and their significance
7. What are trace elements? Mention functions of any two trace elements?
8. What are the causes and features of renal glycosuria?
9. What are different types and features of beriberi?

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