

**ADVANCED NUTRITION - II**

Time: Three Hours

Maximum: 75 Marks

**SECTION -A (30 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 6 = 30)

- 1 a Mention the physiological action of Vitamin A and E.  
OR  
b Write a note on storage of fat soluble vitamins in the human body.
- 2 a Give RDA for water soluble vitamins.  
OR  
b Write a note on chemistry, physiological action and dietary sources of folic acid.
- 3 a What are the factors influencing regulation of calcium concentration?  
OR  
b Brief about digestion, absorption and transport of iron in the body.
- 4 a What is the role of iodine in thyroxin formation?  
OR  
b Discuss on function, dietary sources and deficiency symptoms of zinc in the human body.
- 5 a List the important function of conjugated linoleic acid and flavonoids.  
OR  
b What is resistant starch and write its types?

**SECTION -B (45 Marks)**

Answer any THREE questions

ALL questions carry EQUAL Marks (3 x 15 = 45)

- 6 i) How fat soluble vitamins are interacted with other nutrients? (7)  
ii) Write about deficiency and toxicity symptoms of fat soluble vitamins. (8)
- 7 Discuss on chemistry, physiological action, digestion, absorption, transport, utilization, storage and excretion of  
i) Ascorbic Acid (7)  
ii) Niacin (8)
- 8 i) Write in detail on calcium phosphorous ratio regulation. (5)  
ii) Describe the role of iron in the prevention of anemia. (5)  
iii) Elaborate on functions, mechanism of action, deficiency and toxicity symptoms of fluorine. (5)
- 9 Comment on the physiological functions, dietary sources, deficiency and toxicity of  
i) Magnesium (5)  
ii) Selenium (5)  
iii) Molybdenum (5)
- 10 i) How nutraceuticals are classified? (5)  
ii) Enumerate on chemistry, occurrence and functions of phenolic substances and isoprenoid derivatives. (10)