

Physiology**[NEP]****B.Sc. First Semester End Examination-2024****Regular and Supplementary Paper****PAPER-PHY SEC 101T****[Nutrition and Dietetics]****Full Marks: 20****Time: 01 Hrs***The figures in the right hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.**Illustrate the answers wherever necessary.***Group-A****1. Answer any FIVE questions of the following: 5x2= 10**

- a. What are the components of Total Energy Expenditure? 2
- b. What do you mean by antivitamin & provitamin? 2
- c. Define keratomalacia. 2
- d. What is the role of SDA of food in energy metabolism? 2
- e. What is the difference between calorific value and physiological fuel value of nutrients? 1+1
- f. Distinguish between neutraceutical & cosmoceutical. 1+1
- g. How do Basal Metabolic Rate (BMR) & Resting Energy Expenditure (REE) differ? 1+1
- h. What is the significance of ACU in nutrition? 2

(2)

Group-B

2. Answer any TWO questions of the following: 2×5 = 10

a. Vitamin D is a hormone not a vitamin –justify.

Write the causative factor of Beri-Beri. 3+2

b. Briefly discuss the mechanism of synthesis of 1,25-dihydroxycholecalciferol.

Write the function of vitamin A in vision 4+1

c. Prepare a balanced diet plan for a sedentary adult.

What is the role of food Guide Pyramid in diet planning? 3+2

d. What happens due to folic acid deficiency in man?

Discuss the role of vitamin E in our body 2+3
