

**Nutrition [Major]****[NEP]****B.Sc. First Semester End Examination-2024****(Regular & Supplementary Paper)****PAPER-NUT MJ-101T****[Basic Nutrition & Nutritional Physiology]****Full Marks: 40****Time: 02 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 do you mean by nutraceuticals?
- b. Write the full form S.D.A, and B.M.R.
- c. What do you mean by GFR?
- d. Define spermatogenesis.
- e. Write the name of major hormones secreted from thyroid gland.
- f. What are major types of ovarian follicles?
- g. Write the function of gastrin.
- h. Define RDA.

**Group B**

**2. Answer any FOUR questions of the following: 4x5 = 20**

- a) Briefly discuss the types of malnutrition. 5
- b) State the interrelationship between health and nutrition. 5
- c) Write the sources and functions of carbohydrate. 2+3
- d) Briefly discuss the structure and hormonal function of pancreas. 2+3
- e) Write the difference between cortical and juxtamedullary nephrons. 5
- f) Write the types and functions of plasma protein. 2+3

**Group C**

**3. Answer any ONE question of the following: 1x10 = 10**

- a) i) Describe the fat absorption in human body.  
ii) Write the structure of stomach. 6+4
  - b) i) Write the ovarian changes during menstrual cycle.  
ii) State the difference between adequate nutrition and optimal nutrition. 6+4
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