

**Nutrition [MAJOR]**

**[NEP-CBCS]**

**B.Sc. First Semester End Examination-2023**

**PAPER: NUTH-MJ101T**

*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**

- i) Write any two major differences between marasmus and kwashiorkor.
- ii) Define functional food.
- iii) Write the definition of health.
- iv) What do you mean by Nutraceuticals?
- v) Write the name of any two local gastrointestinal hormone.
- vi) Write the main function of testis and ovary.
- vii) Write any two major differences between prokaryotic and eukaryotic cells.
- viii) What do you mean by ABO blood group?

**Group B**

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

- a) Design a healthy eating pyramid for an Indian adult person.
- b) i. Write the definition of reference man and reference woman.  
 ii. What is malnutrition? **2+2+1**
- c) i. Write the function of Protein.  
 ii) "Spices as functional food" – Justify the statement. **2½ +2½**
- d) i. Define erythropoiesis.  
 ii. Write the different stage of erythropoiesis. **2+3**
- e) i. Write any four functions of cell membrane.  
 ii. Briefly discuss the spermatogenesis process. **2+3**
- f) i. Write any two major differences between liver bile and gallbladder bile.  
 ii. Write the function of pancreatic juice. **2+3**

**Group C**

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

- a) i) Enumerate the hormones secreted by pituitary gland.  
 ii) Briefly discuss the functions of thyroxin.  
 iii) Write the function of growth hormone. **2+5+3**
- b) i) What are the different steps of urine formation?  
 ii) Write the non-excretory functions of kidney.  
 iii) Write the role of vitamin on carbohydrate metabolism. **3+5+2**