

Total pages: 02

**PG CBCS**  
**M.Sc. Semester-I Examination, 2023**  
**NUTRITION AND DIETETICS**  
 PAPER: NUD 101  
**(PHYSIOLOGICAL ASPECT OF NUTRITION)**

Full Marks: 40

Time: 2 Hours

**Write the answer for each unit in separate Answer Sheet**

The figures in the right-hand margin indicate full marks.  
 Candidates are required to give their answers in their own words as far as practicable.

**UNIT-1**  
**PHYSIOLOGICAL ASPECTS OF NUTRITION I**

**GROUP-A**

Answer any **TWO** questions from the following: 2×2 = 4

1. What is pleura?
2. What is Myocardial Infraction?
3. What is GULT?
4. What do you mean by dead space in respiratory tract?

**GROUP-B**

Answer any **TWO** questions from the following: 4×2 = 8

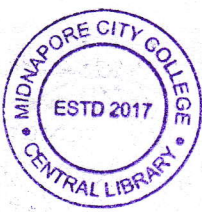
5. What do you mean by facultative and obligatory water reabsorption from kidney?  
 Give an example of High-threshold and Non-threshold substances of urine. 2+2
6. Write the cause and significance of heart sounds, produced in each cardiac cycle.  
 What is cardiac index? 3+1
7. What is Bohr's effect? How does it influence oxy-hemoglobin dissociation curve? 2+2
8. What is Myasthenia Gravis? Write the names and functions of muscles that are found in back. 2+2

**GROUP-C**

Answer any **ONE** question from the following: 8×1 = 8

9. What is diaphragm? Briefly explain the central regulatory mechanism of the respiration process. 2+6
10. Describe the digestion of protein in brief. Write the role of bile salt in fat digestion. 5+3

(P.T.O.)



(2)

**UNIT - 2**  
**PHYSIOLOGICAL ASPECTS OF NUTRITION II**

**GROUP-A**

Answer any **TWO** questions from the following:

**2×2 = 4**

1. State the names of spinal nerves
2. Write the origin and function of GnRH
3. What is "feed-back mechanism"?
4. What is papillae?

**GROUP-B**

Answer any **TWO** questions from the following:

**4×2 = 8**

5. Write the role of thyroxine hormone on carbohydrate metabolism. What is endemic goiter? 3+1
6. Describe the role of aldosterone in mineral metabolism. What cause pheochromocytoma? 3+1
7. Write a short note on Autoimmune disorders.
8. Enumerate the major functions of the thalamus and hypothalamus. 2+2

**GROUP-C**

Answer any **ONE** question from the following:

**8×1 = 8**

9. What is allergen? How do immunological hypersensitive reactions to an agent give rise to several allergic conditions? What do you mean by immunomodulation? Give examples. 2+4+2
10. Describe the role of PTH and calcitonin hormone in the regulation of blood calcium homeostasis. State the hormonal regulation of ovulation. What do you mean by ectopic pregnancy? 4+3+1

\*\*\*\*\*