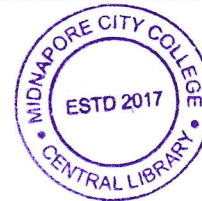


PG (CBCS)
M.Sc. Semester-I Examination, 2022
NUTRITION AND DIETETICS
PAPER: NUD 101
(PHYSIOLOGICAL ASPECT OF NUTRITION)



Full Marks: 40

Time: 2 Hours

Write the answer for each unit in separate 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. Name the two muscles found in abdominal wall.
2. What is dead space in respiratory system? Classify it.
3. Which are the organs absorbing alcohol and vitamin B12
4. Define hypertension.

GROUP-BAnswer any **TWO** questions from the following:**2×4 = 8**

5. Discuss the mechanism of HCL secretion in stomach.
6. Discuss the fluid shift mechanism to adjust the blood pressure.
7. What is Bohr's effect? How does it influence oxy-haemoglobin dissociation curve?

2+2

8. What is GER? Which are the factors regulating GFR?

2+2**GROUP-C**Answer any **ONE** question from the following:**1×8 = 8**

9. Classify the salivary glands. Write the function of pacesetter cells. Discuss the pancreatic secretion and their functions in digestion. Write the characteristics of muscle cramp.

2+1+3+2=8

10. Define cardiac output. Make a note on "Baroreceptor reflex". State the importance of "vital capacity"

2+4+2=8**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 importance of MHC in cell mediated immune response.
2. Which are the hormones work for the glucose metabolism?
3. Write the location and function of "leydig cells".
4. Define "visual cycle".

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

5. State the functions of "mechanoreceptors". Make a note on primary (basic) taste sensations in presence of different substances. 1+3=4
6. Name the cells and mediators of allergic reaction. Write the symptoms of food allergy with example. 2+2=4
7. What is ovulation? Discuss the role of hormones on ovulation. 1+3=4
8. Describe the endocrine functions of pancreatic islets.

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

9. Differentiate active and passive immunization. How does "Natural Killer (NK) cell kill the tumor cell? State the structural and functional characteristics of a synapse. 2+2+4=8
10. Define puberty. Mention the factors regulating spermatogenesis. Briefly discuss the secretion, functions and disorders of suprarenal glands. 1+2+5=8
