



Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD)
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC Under Section 128
Coimbatore - 641 043, Tamil Nadu, India
Continuous Internal Assessment Test II- April, 2025
II Semester

Class: I PG

Time: 2 Hours

Major: Food Science and Nutrition

Max. Marks: 68

23MFNC07 Physiological Basis for Nutrition

Course Outcomes:

CO3 Comprehend the Organisation and Structural plan of the Digestive System

CO4 Understand the Respiratory and Renal Anatomy and Physiology

CO5 Gain knowledge on the Endocrine and Nervous Systems

PART-A

Choose the correct answer

6×1=6

1. Pancreatic lipase is called CO3K1
a) Ptyalin b) secretin c) steapsin d) mucin
2. The mechanism of secretion of ----- involves only chemical stimuli CO3K2
a) saliva b) gastric juice c) bile d) succus entericus
3. Which ion is reabsorbed in all parts of the renal tubule? CO4K2
a. Na⁺ b. Cl⁻ c) K⁺ d) HCO₃⁻
4. The pneumotaxic respiratory centre is located in the ----- CO4K2
a) Medulla b) Pons
c) Hypothalamus d) Cerebrum
5. What hormone regulates the reabsorption of water in the kidneys? CO5K2
a) Aldosterone b) Antidiuretic hormone (ADH)
c) Renin d) Atrial natriuretic peptide (ANP)
6. Which of the following is a secretion of the adrenal medulla? CO5K2
a) glucocorticoids b) mineralocorticoids
c) androgens d) epinephrine

PART -B

Answer all the questions. Each answer should not exceed 400 words or two pages. Give illustrations wherever necessary

3x6=18

- 7.a. Bring out the significance of GI Hormones (OR) CO3K2
- 7.b. Describe the movements of the GI Tract CO3K4
- 8.a. Describe pulmonary volumes with the help of the Spirogram CO4K2
(Or)
- 8.b. Outline the process of gaseous exchange in the lungs CO4K2
- 9.a. Describe the homeostasis of Bone resorption CO5K3
(Or)
- 9.b. Describe the structure and functions of the thyroid gland CO5K3

PART-C

Answer all the questions. Each answer should not exceed 800 words or two pages. Give illustrations wherever necessary **3x12=36**

10a. Outline the Mechanism of Salivary Secretion CO3K2
(Or)

10b. Summarise the mechanism of secretion of digestive juices. CO3K4

11a. The Respiratory tract is a system of successively branching tubules. Explain. CO4K4
(Or)

11.b. The structure and Functions of the nephrons are vital to Urine Formation. Explain. CO4K4

12.a. The Pituitary gland is the master gland. Justify the statement. CO5K4
(Or)

12.b. Describe cell-to cell signalling with neat labelled diagrams and examples CO5K3

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