



Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)

Re-accredited with 'A+' Grade by NAAC. Recognised by UGC Under Section 12B

Coimbatore - 641 043, Tamil Nadu, India

Master's Degree Examination – June / July 2021

II Semester

Class : I PG
Major : Food Science and Nutrition

Time : 3 Hours
Max. Marks: 100

20MFNC07 Physiological Basis for Nutrition

PART A

10 x 1 = 10

Choose the Correct Answer

- Recall the stage of anemia when the haemoglobin level is 9g/dl in blood CO1K1
a. Mild b. Moderate c. Severe d. Very severe
- Identify in which type of immunity both B-cells and T-cells are involved CO1K1
a. Innate Immunity b. Active immunity c. Passive immunity d. Acquired immunity
- The major cation in the intercellular fluid compartment is CO2K1
a. Potassium b. Magnesium c. Calcium d. Sodium
- Predict the duration of one cardiac cycle when the normal heart rate of 72 beats per minute CO2K2
a. 0.4 Sec b. 0.6 Sec c. 0.8 Sec d. 10.0 Sec
- Identify which of the following is absorbed by passive transport from the intestine CO3K1
a. Galactose b. Fructose c. Glucose d. Amino acid
- Show which of the following controls the secretion of gastric juice CO3K1
a. Secretin b. Gastrin c. Cholecystokinin d. Ptyalin
- Locate in which part of the lungs, gaseous exchange takes place. CO4K1
a. Bronchi b. Bronchioles c. Capillaries d. Alveoli
- Name the hormone that causes the kidneys to retain sodium and to excrete potassium. CO4K1
a. Vasopressin b. Antidiuretic Hormone c. Insulin d. Aldosterone
- Identify the master gland from the following. CO5K1
a. Pituitary b. Adrenal c. Thyroid d. Pancreas
- Name the point at which an impulse is transmitted from one neuron to another neuron. CO5K 1
a. Dendrite b. Synapse c. Terminal plate d. Glial cell

Part B

5 x 6 = 30

Answer ALL questions

Each answer should not exceed 400 words or two pages

- 11.a. Illustrate the functions of plasma proteins (or) CO1K2
11.b. Explain about autoimmune diseases. CO1K2
- 12.a. Write a note on the composition of body fluids (or) CO2K3
12.b. Relate the effect of exercise on cardiovascular system. CO2K3
- 13.a. Sketch the structure of the gastrointestinal tract and explain. (or) CO3K3
13.b. Explain the role of hormones in digestive system CO3K3
- 14.a. Write on the mechanics of respiration (or) CO4K3
14.b. Demonstrate the maintenance of acid base balance in the body CO4K3
- 15 a. Outline the disorders of endocrine glands (or) CO5K4
15.b. Appraise on the role of neurotransmitters in the body. CO5K4

Part C

5 x 12 = 60

Answer ALL questions

Each answer should not exceed 800 words or four pages

- 16.a. Illustrate the process of development of red blood cells and explain about anaemia. (or) CO1K2
16.b. Explain in detail the different types of immunity. CO1K2
- 17.a. Write in detail on Lymphatic system and functions of lymph. (or) CO2K3
17.b. Explain the various events and stages in the cardiac cycle. CO2K3
- 18.a. Demonstrate the mechanism of secretion and functions of salivary and gastric juice. (or) CO3K3
18.b. Write a note on i. Liver function tests ii. Gastric function tests CO3K3
- 19.a. Outline the process of exchange of respiratory gases and regulation of respiration. (or) CO4K4
19.b. Illustrate the process of urine formation. CO4K4
- 20.a. Explain the structure and functions of pituitary gland. (or) CO5K3
20.b. Write on the general anatomy of nervous system and explain the different parts of the CNS. CO5K3
