

Roll no.....

2024

Sem -1.

Department of Food Technology
School of Interdisciplinary Sciences and Technology

Jamia Hamdard, New Delhi – 110062

M.Sc. Nutrition and Dietetics

Semester-I Examination, January, 2024,

Paper Title: Human Physiology; Paper Code: MDNCC-101

Duration: 3 Hours

Max Marks: 60

etc: write to the point, please make sure you have mentioned question no. before answering

SECTION-A

Q. no- I. Attempt any six from the following question:

(2 marks each; 2X6=12marks)

1)	Explain Interchange of gases within the lungs.	(CO-3, PO-3)
2)	What are the Stimulating and inhibiting factors for Secretion of Hydrochloric Acid?.	(CO-3, PO-3)
3)	Give the role of mitochondria and lysozymes.	(CO-1, PO-3)
4)	What is cardiac cycle and cardiac output? Give the physiological conditions that alter Cardiac Output.	(CO-1, PO-3)
5)	What is a electrolyte balance function of the kidney.	(CO-3, PO-3)
6)	Draw the Schematic diagram showing regulation of gastric secretion.	(CO-3, PO-3)
7)	Define Residual Volume (RV) and Vital capacity (VC).	(CO-1, PO-3)
8)	Mention the composition and properties of salivary juice.	(CO-1, PO-3)
9)	Draw and explain the structure of hepatic lobule.	(CO-1, PO-3)
10)	What is systemic circulation?	(CO-1, PO-3)
11)	What is an active and passive transport in cell?	(CO-1, PO-3)

SECTION-B

Q. no-II. Attempt any six of the following questions:

(4marks each; 6X4=24marks)

1)	Explain oxygen dissociation curve.	(CO-2, PO- 3)
2)	What is a nephron? Explain the organs involved in excretion with diagram?.	(CO-3, PO-3)
3)	Describe the histology of small intestine with a labelled diagram.	(CO-3, PO-3)
4)	Specify the role of spleen, lymph and lymph glands.	(CO-1, PO-3)
5)	Give an overview of female reproductive organs.	(CO-3, PO-3)
6)	Describe the structure of small intestine and its functions.	(CO-3, PO-3)
7)	Explain the pathophysiology of atherosclerosis.	(CO-3, PO-3)
8)	Give functions of stomach.	(CO-1, PO-3)
9)	Give major hormones secreted by pituitary gland and their physiological effects.	(CO-3, PO-3)
10)	Describe the conducting system of heart.	(CO-2, PO- 3)

SECTION-C

Q. no- III. Choose any two of the following question:

(12 marks each; 12X2=24)

1)	Describe the structure of heart and process of circulation.	(CO-1, PO-3)
2)	Explain the organs involved in respiration?Describe the mechanism involved in respiration.	(CO-2, PO- 3)
3)	Describe the functional anatomy of liver and its functions.	(CO-3, PO-3)
4)	Describe the lymphatic system in detail.	(CO-1, PO-3)