

MSc.
JTS
2020

Roll no.....

Department of Food Technology
School of Interdisciplinary Sciences and Technology

Jamia Hammad, New Delhi – 110062

M.Sc. Nutrition and Dietetics

Semester-I Examination, March, 2023,

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

Duration: 3 Hours

Max Marks: 60

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

Q. no- 1. Attempt any ten from the following question:(1.5 marks each; 1.5X10=15 marks)

a)	Define Portal triad.	(CO-1, PO-3)
b)	Composition of gastric juice	(CO-3, PO-3)
c)	Oxygen dissociation curve	(CO-3, PO-3)
d)	Total lung capacity (TLC)	(CO-3, PO-3)
e)	Mitochondria and golgi bodies	(CO-1, PO-3)
f)	Semilunar valves	(CO-1, PO-3)
g)	Physiological Conditions that alter Cardiac Output	(CO-3, PO-3)
h)	Systemic circulation	(CO-3, PO-3)
i)	Structure of nephron	(CO-1, PO-3)
j)	Active and passive transport	(CO-3, PO-3)
k)	Draw and label Hepatic lobule diagram	(CO-1, PO-3)
l)	Draw and label cell structure	(CO-1, PO-3)
m)	GFR .	(CO-3, PO-3)

Q. no-2. Attempt any five of the following question: (5 marks each; 5X5=25 marks)

a)	Explain Pathophysiology of atherosclerosis.	(CO-2, PO- 3)
b)	Pathophysiology of hypothyroidism	(CO-2, PO- 3)
c)	Give major hormones secreted by pituitary gland and their physiological effects	(CO-2, PO- 3)
d)	Maintenance of electrolyte balance	(CO-3, PO-3)
e)	What are the functions of bile juice and its composition?	(CO-3, PO-3)
f)	Give functions of stomach	(CO-3, PO-3)
g)	Explain Neural control of respiration	(CO-3, PO-3)
h)	What is blood pressure and factors regulating it?	(CO-3, PO-3)
i)	Mention Stages of development of ovum and associated hormones	(CO-3, PO-3)
j)	What are the functions of liver?	(CO-3, PO-3)

Q. no- 3. Choose any two of the following question: (10 marks each; 10X2=20)

a)	Describe organs involved in excretion	(CO-1, PO-3)
b)	Elaborate pathophysiology of diabetes	(CO-2, PO- 3)
c)	Explain phase of GI secretion cephalic, gastric and intestinal phase	(CO-3, PO-3)
d)	Describe lymphatic system in detail	(CO-1, PO-3)