[10]

SEAT No.

T88J

SARDAR PATEL UNIVERSITY

Bachelor of Science (B.Sc.)

Fifth Semester Examination December - 2020

Tuesday, 29th December, 2020

2:00 P.M to 4:00 P.M

Subject: Biochemistry

COURSE: US05CBCH24

(Human Physiology)

Note: (1) Figures to the right indicate marks. (2) Draw a neat and labeled diagram, v

(2) Draw a neat and labeled diagram, wherever necessary. Total Marks: 70

O. 1 Choose the most appropriate answer from the four alternatives given: The lowest level of structural organization in the human body. (1) b) Tissue level a) Chemical level d) None c) Cellular level Sulphur containing amino acids provide **(2)** b) Iron a) Sulphur d) None of these c) Sodium PO₂ in inspired air is mm Hg. b) 158 a) 58 c) 358 d)458 What is circulatory system? b) Food processing system a) Breathing system d) Immune system c) Blood transport system From what source does tissue get their food? **(5)**

a) Blood

b) C.S.F

c) CO2

(6)

(9)

d) Urine

not diges

not digested in the stomach.

a) Carbohydrates

b) Fat

c) Protein

d) None

(7) A brush border is formed in _

a) DCT

b) PCT

c) Glomeruli

d) Loop of Henle

8) Skeletal muscle composed of

% of water.

a) 50

b) 100

c) 75

d) 40

a) Ureter

transport urine from kidney to the bladder.

c) Bile duct

b) Nephron d) Hepatic duct

(10) What is the unit of nervous system?

a) Nephron

b) PCT

c) Neuron

d) DCT

(P.T.O.)

[1]

(1) (2) (3) (4)	is known as suicidal beg of cellis functional unit of kidneyis function of digestive system. T3 T4 secreted from gland.	[4]
Q.2 (b) (1) (2) (3) (4)	Write True and False Human blood is not liquid connective tissue. Organs are made up of tissues. There are two ureter in the urinary system. Smooth muscles are voluntary muscle.	[4]
Q.3 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12)	Answer any TEN from the following: What are four basic tissues? Define cell and name the blood cells. When we inhale, where does the air go? How Respiratory system regulates Acid base balance? Define Neurotransmitter. Write importance of maturation. What is Homeostasis? What are Voluntary and Involuntary muscles? What are components of nervous system? What is GFR? What are various sarcoplasmic proteins of Muscle? Define endocrine and exocrine glands.	[20]
Q.4 (1) (2) (3) (4) (5) (6) (7) (8)	Write Answer in detail (Any four) Write the names of respiratory, Immune, integumentry and nervous systems organs. Discuss about hormones of Anterior pituitary gland. Discuss about O2 transport in the blood. Write about cardiac cycle Write about composition of skeletal muscle. Draw the labeled diagram of cortical Nephron and write about its importance. Define Neuron and write about nerve impulse transmission. Discuss importance of Kidney.	[32]