C92)

SARDAR PATEL UNIVERSITY

B.SC. Vth Semester Examination 2020

Subject: Biochemistry

Subject Code: US05CBCH05

(Human Physiology and Clinical Endocrinology)

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Wedresday,30 th Decemb	0.0.
Wegresage 36 30ECemb	oer-2020
9:00 PM. To 4:00 P	M

oley, 30 th D€cember 0 PM. To 4:00 PM		Total Marks: 70
. Choose the correc	t option and write it in the answer sheet:	[10
1) is the stru	ctural and functional unit of life.	
a) Organ	b) System	
c) Cell	d) Organism	
2) Cystein is sulph	ur containing	•
a) Aminoacid	b) Sulpholipids	
c) Fattyacids	d) none of these	
3) 3. Synthesis of	Thyroid hormone requires.	
a) Zinc	b) Iodine	
c) Sodium	d) None.	
4) Which system of		
a) Breathing sys	tem b) Food processing system	
c) Blood transp	ort system d) Immune system	
5) From what sour	ce does tissue get their food?	
	b) C.S.F	
c) CO2		
6) Where plasma	·	
a) Nephron	b) Gall bladder	
c) Lung	b) Gall bladder d) None of these	
7) Enithelial cells	ofhave brush borders	
a) PCT	b) ureter	
c) Glomeruli	d) Loop of Henle	
8) Poly urea is sy		
	llitus b) Gout	
c) Fever	d) None	
c) Fever 9) Acetone body	s in nature	
a) Acidic	b) Alkaline	
a) Acidic	d) None	
10) Oxytocin secre		
a) Hypothalam		
c) Kidney	d) Adenohypophysis.	
c) Kidney	d) Adenony populy site.	
2 (A) Write true or	false	[0
i) Human blood	s not liquid connective tissue.	
2) Tissues are ma	de up of similar cells.	
3) There are two	kidneys in the Human body.	

4) Hormone needs receptor to work.

	Fill in the blanks [0	4]
	Erythrocyte iscell.	
2)	is functional unit of lung.	
	Normal GFR value is	
4)	Chemical nature of Aldosterone is	
Q3. A	nswer the followings in short (any ten)	[20]
1)	What are four basic tissues?	
2)	Define cell and name the blood cells.	
	What is function of Trachea?	
4)	What is Partial pressure of O2 in the tissue?	
•	Define Neurotransmitter.	
6)	Write importance of ureter and urinary bladder.	
7)	Write about homeostasis with example.	
	What are Voluntary and Involuntary muscles?	
	What is Hypoglycaemia?	
	What is normal blood sugar level?	
	What are various hyperglycaemic hormones?	
12)	Define endocrine and exocrine glands and give examples of biological amines.	
Q4 De	scribe in detail any four questions.	[32]
1)	Define Physiology and write about functions of any two systems of human body.	
	List out all 11 systems of human body and write components of any four systems.	
3)	Discuss about O2 transport in the blood.	
4)	Write functions of circulatory system and draw labelled diagram of human heart.	
5)	Write about sliding filament theory for muscle contraction.	
6)	Draw the labelled diagram of cortical Nephron and write about its importance.	
	Define diabetes mellitus and write about Adult onset Diabetes mellitus.	
8)	Discuss importance of Insulin and glucagon.	
	X	