(14/A-4)

TEAT No.____

No. of Printed Pages : 2

Sardar Patel University

B.Sc Biotechnology Fifth Semester
Saturday, 3rd November 2018
10:00 am to 1:00 pm
US05CBIT06 (Cell Biology)

Total Marks: 70

ote:	Figures	to the right indicates marks.	III BETT.	What is no related shall stored and	(il
	Multi	ple Choice Questions		What is give nearly at Class and Brazile	[10
		2 / L		Stopphin Habel Niverin II	15
	Which memb	n of the following statement is true reprane?	gardin	g the surface tension of plasma	
	a.	Surface tension of plasma	c.	Surface tension of plasma	
		membrane is more than pure lipid		membrane is less than pure lipid	
	b.	Surface tension of plasma	d.		
		membrane pure lipid are same		surface tension	
	The main role of carbohydrates in the cell membrane is				
	a.	Adhesion	C	Locomotion	
	b.	Recognition Manual Internation has	e.	Reception	
	The flu	uidity of plasma membrane increase v			
	a.	Increase in saturated fatty acid in the		Increase in phospholipids content in	(0.1)1
		membrane		the membrane	(1)
	b.	Increase in unsaturated fatty acid		Increase in glycolipid content in the	
		in the membrane		membrane and to homogen advanta	
	Which	of the following is an invagination o			
	a.	Cisternae	c.	T- tubules	
	b.	Microtubules	d.		
	Which	of the following is the most heteroge		type of cytoskeletal filament?	
	a.	Microtubules	c.	Intermediate filaments	173.
	b.	Microfilaments	d.	None of these	
	catalyzes the synthesis of cAMP from ATP.				
	a.	Adenylyl isomerase	c.	Adenylyl epimerase	
	b.	Adenylyl cyclase	d.	Adenylyl transferase	
		a signal is present continuously and a			
	system	results in .	00102	certain uneshold level, receptor	
	a.	Adaptation	c	Integration	
	b.	Desensitization	d.		
		MEK, ERK are the examples of	ч.	a and b both	
	a.	MAPK family	c.	SH3 domain	
	b.	SH2 domain	d.	None of these	
		of the following is the target of caspa		Trone of these	
	a.	FAK		Proteins of cytoskeleton	
	b.	Lamins	d.	All of these	
	U.			13450.00 (13451.00 A) 1341.00 (1345.00 A)	
	is the cancer of connective tissue, a. Sarcoma c. Myeloma				
	b.	Carcinoma	c. d.	Myeloma	
	U,	Caremonia	u.	Lymphoma	(
					(P.T.

(p-A/12)

Q.II	Answer the following questions (attempt any TEN)	[20]
a)	Give the difference between active transport and passive transport.	
b)	What is the role of cholesterol in plasma membrane?	
(c)	What is glycocalyx? Give its functions.	
d)	Sketch and label Myosin II.	
e)	What are MTOCs? Define cytoskeleton. Give its basic functions.	
f)	and the court of the contractions	
g)	Write the role of PKA and MAPK in Biosignaling.	
h)	Enlist basic signalling mechanisms.	
i)	What are the basic differences in mechanism of G-protein coupled receptor and	
	receptor tyrosine kinase.	
j)	Write down the orderly process of apoptotic cell.	
k)	Give the different causes of cancer.	
1)	Write the basic difference between benign and malignant tumor.	
d 75	The dividing of our and members of the could be seen and the	48.
).III a)	Give the role of carbohydrates in plasma membrane.	[05
b)	Write a note on Na [†] / K [‡] ATPase pump.	[05
-,	d licer ise in the direction of the recent in alvertical winter the licer.	
(a)	Give the functions of plasma membrane.	[0:
b)	Write a note on membrane fluidity.	[0:
	How assembly and disassembly of Microtubules occurs?	[0:
Q.IV a)	11 to the state Clarent	[0:
b)	Write a note on intermediate marnent. OR	1
		[1
Q.IV	What are motor proteins? Explain the structure and functions of Kinesin and dyenin.	1-
	b. Microfilance and Long of None of these	[1
Q.V	Explain the activation of glycogen synthesis by insulin in detail.	I I
	a Adar visit is remarked on OR	10
(a) (a)	Write a note on JAK-STAT pathway.	[0
b)	Describe the activation of cAMP dependent protein kinases.	[0
5000 7 5	evelor medicality	
Q.VI a)	Give a note on Tumor suppressor genes and oncogenes.	[0
b)	Enlist the types of cancer and describe the basic properties of cancer cells.	[0
υ,	Op	1.9
O VI a)	Explain extrinsic pathway of apoptosis.	[0
Q.VI a)	Write a brief note on caspases.	0]
b)	A STATE OF THE STA	-
	Which of the following is the time of the gaspases:	(6
	a 134. X 2 Pateins of controlleron	

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