2022

Physiology [HONOURS] (CBCS)

## (B.Sc. First Semester End Examination-2022) PAPER-C1T

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as

far as practicable

Illustrate the answers wherever necessary

1. Answer any five questions of the following:

5x2=10

- a) Mention the function of desmosome.
- b) Define uniport.
- c) What is Flippase & Floppase?
- d) Define coenzyme and prosthetic group
- e) What is transGolgi network.
- f) What do you mean by rate limiting enzyme? Give one example.
- g) Define feedback inhibition of enzyme action.
- h) What is secondary active transport?

2.	Answer any four questions of the following: 43	c5 = 20	
a)	What is tight junction? Write the structure and function	of gap	
	junction.	1+2+2	
b)	Define unit membrane. Discuss the significance of fluid-	ane. Discuss the significance of fluid-mosaic	
	model of cell membrane with the factors causing fluidity.	. 1+4	
c)	Classify enzymes with suitable examples. State the signi	ficance	
	of Km value.	4+1	
d)	How pH and temperature affect enzyme activity. What	nd temperature affect enzyme activity. What is turn	
	over value of enzyme?	4+1	
e)	What do you mean by allosteric modulation of enzyme	o you mean by allosteric modulation of enzyme action?	
	What are K series & V series enzyme?	3+2	
f)	What are the main components of extracellular matrix? Write in		
	brief the function of cell adhesion molecules.	2+3	
3.	Answer any one question: 1x1	0 = 10	
a)	Describe the electron microscopic structure of mitocl	nondria	
	with suitable diagram mention in brief the functions of Golgi		
	bodies. (5	5+2)+3	
b)	What is Vmax? Briefly describe the michaelis menten	model	
	for single substrate enzyme kinetics. "Allosteric enzymes do not		
	obey michaelis menten kinetics" – justify the statement.		