## **Mock Question Paper**

## Microbiology(Hons.)

## **Core Paper-6**

1.	Answer any five of the following questions:	1x5=5
a)	Define facilitated diffusion.	
b)	Distinguish between diffusion and osmosis.	
c)	What is desmosome?	
d)	What is the role of the nuclear localization sequence in a nuclear protein?	
e)	What is the concept of cell apoptosis?	
f)	What is peroxisome?	
2.	Answer any five of the following questions:	2x5=10
a)	Give functions of lysosomes.	
b)	Significance of S-phase in cell cycle.	
c)	What do you mean by pleuripotency?	
d)	What do you mean by stem cell?Give example	
e)	What do you mean gap junction?	
f)	What is nucleolus?	
3.	Answer any three of the following questions:	5x3=15
a)	Describe different types of cell surface receptors for signaling	
b)	Give structure and significance of tight junctions. What is adhesion junction	? 3+2
2)	Describe the structure of nucleus and give its function	
(l:	Write a short note on programmed cell death	
e)	Describe passive transport across a biological membrane.	
f)	What is protein sorting? Describe it	
	Answer any <i>one</i> of the following questions:	10x1=10
a)	Describe how Na <sup>+</sup> and K <sup>+</sup> ions moves across the cell membrane.	
b)	What is the difference between the nuclear envelop and the cell membrane in terms of	
	structure and function?	
c)	Give an account on mechanism of cell cycle regulation and add notes on checkpoints of	
	cell cycle.	
d)	escribe the role of oncogenes in cancer development. What is protein glycosylation?7+3	
e)	Give structure and function of golgi bodies.	
f)	Write short note on:	5+5
	i) Active transport	
	ii) Group translocation.	

Time-2 hr

F.M-40