No. of papers + 65

Roll No.: _____

M.M. ENGINEERING COLLEGE, MULLANA, AMBALA (HARYANA)

Sessional Examination-I (Month, Year)

Course / Branch / Semester / Section: B. Tech. / All /1st / F **Course Code: BBIO-001**

Course Name: Biology **Date of Examination: 27.02.2025**

Timings: 2:00 PM – 3:30 PM **Maximum Marks: 30**

Sessional Outcomes		[CO#]
i.	Able to understand the basics of cell and ultrastructure of cell organelles with function	1
ii.	Able to understand different biomolecules, plant and animal tissue system, various metabolic processes	2

Section –A (Each question carries 1 mark) **(1 x 6 = 6 Marks)**

Q.1. Answer **ALL** questions

		[BTL#]	[CO#]	[PO#]
i.	What is modern cell theory?	2	1	1
ii.	Which organelle is called as the power house of the cell?	1, 2	1	1
iii.	..... is the jelly like substance found floating inside the plasma membrane.	1,2	1	1, 2
iv.	Diffusion is the movement of molecules from a region of .....concentration to a of ..... concentration.	1, 2	2	1
v.	What is the role of ribosomes.	2	2	2
vi.	Lipids are .....in water and ..... in organic solvent.	2	2	1

Section – B (Each question carries 2 mark) **(2 x 2 = 4 Marks)**

Answer **ALL** questions

		[BTL#]	[CO#]	[PO#]
Q.2.	Define carbohydrates. How are they classified with examples?	1, 2	1	1
Q. 3.	Who gave 5-kingdom classification. Name the kingdoms of 5-kingdom classification.	1, 4	2	1,2

Section – C (Each question carries 4 mark) **(4 x 2= 8 Marks)**

Answer **ALL** questions

		[BTL#]	[CO#]	[PO#]
Q. 4.	Write a note on mitochondria with well labeled diagram?	1, 2	1	1
	OR			
	Write down differences between prokaryotic cell and eukaryotic cell?	4	1	4
Q. 5.	Explain the classification of plant tissue system?	1, 2	2	1
	OR			
	Define lipids and write down its classification.	4, 5	2	2

Section –D (each question carries 6 mark) **(6 x 2=12 Marks)**

Answer **ALL** questions

		[BTL#]	[CO#]	[PO#]
Q.6.	Differentiate between plant cell and animal cell with labeled diagram.	2, 4	1	1, 2
	OR			
	Explain fluid mosaic model of plasma membrane?	1, 2	1	1
Q.7.	What is the basic unit of proteins. Give its structure. Explain structural hierarchy of proteins?	1, 2	2	1, 2
	OR			
	Explain different types of animal tissues.	2, 4	2	1

--- END OF PAPER ---