



PART – B

(5 x 13 = 65 Marks)

Q.No.	Questions	Marks	KL	CO
11. a)	Explain about top down and bottom -up approach for building nanomaterials.	13	K2	CO1
	(OR)			
b)	Explain the working principle of SEM and TEM.	13	K2	CO1
12. a)	What is DNA origami? Mention in brief about how DNA can be used as structural material.	13	K4	CO2
	(OR)			
b)	Describe in detail about carbon nanotube and its bio- applications.	13	K2	CO2
13. a)	Describe the importance of scaffolds in tissue engineering.	13	K3	CO3
	(OR)			
b)	Elaborate in detail about the nanotechnology in organ printing.	13	K3	CO3
14. a)	Nanobiotechnology is playing an important role in the field of drug delivery. Justify your statement with suitable example.	13	K4	CO4
	(OR)			
b)	What are the types of nanocarriers? How nanocarriers are useful for targeted drug delivery process?	13	K4	CO4
15. a)	Enumerate the toxicities of various nanomaterials.	13	K3	CO5
	(OR)			
b)	Write briefly about the health and environmental impacts of nanotechnology.	13	K3	CO5

PART – C

(1 x 15 = 15Marks)

Q.No.	Questions	Marks	KL	CO
16. a)	Paraphrase the importance of nanobiotechnology in diagnosis and treatment of cancer and respiratory diseases.	15	K4	CO3
	(OR)			
b)	Explain in detail about Electrospinning. Describe with the advantages of using nanofibers.	15	K4	CO3