No. of Printed Pages: 1



Sl. No.

M.Sc. IV Semester Degree Examination, Sept./Oct. - 2024 BIOTECHNOLOGY

Nanobiotechnology

(NEP)

Time: 3 Hours Maximum Marl				s: 70	
Not	te:	(i)	Answer any five of the following questions with Question No.1 (Q1) compuls each question carries equal marks.	ory,	
		(ii)	Draw neat diagrams wherever necessary.		
1.	(a) (b)		cuss on classification of nanomaterials with suitable examples. cuss on physico-chemical characteristics of nanoparticles.	10 4	
2.	(a) (b)	, 1		4 10	
3.	_	plain in detail about working principle of UV-visible spectroscopy and mention applications.			
4.	(a) (b)		ef about various types of biological nanomaterials. cuss in detail about Protein-based nanostructures and their applications.	4 10	
5.	(a) (b)	_	plain DNA sensors and their applications.	7 7	
6.	(a) (b)		cuss the Vacuum evaporation and ion plating methods of synthesis. ef on application of FTIR spectroscopy for analysis of nanomaterials.	10 4	
7.	(a)		cuss in detail about biocompatible nanomaterials and their biological lications.	7	
	(b)	Exp	plain Protein sensors and their applications.	7	
8.	_	Discuss in detail about biological methods of nanomaterial synthesis and their 14			