Exam.Code:0912 Sub. Code: 6730

1079

B.E. (Biotechnology) Eighth Semester Elective – I

BIO-815A: Nano Biotechnology

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt <u>five</u> questions in all, including Question No. I which is compulsory and selecting two questions from each Unit.

x-x-x

]	. Attempt the following:-	
	a) What is a nanorod?	
	b) What are nanoensembles?	
	c) What'are electrochemical biosensors?	
	d) What are nanoshells?	
	e) Differentiate between single and multi walled CNTs,	
	f) What is the C-60 structure called and why?	
	g) Give an example of an W/0 nanoemulsion.	
	h) What are nanosensors?	
	i) What are liposomes?	
	j) What is a quencher?	(10x1)
	<u>UNIT – I</u>	
II.	What are nanobiosensors? Give two applications.	(10)
III.	Detail the biomedical applications of CNTs.	(10)
IV.	What are nanoemulsions? Where do these find applications?	(10)
	<u>UNIT – II</u>	
V.	What are nanopores? Give their applications.	(10)
	How are actin based motor proteins fabricated?	(10)
VI.	How are actiff based motor proteins are af nanorobotics	(10)
VII.	What are nanorobots? Give any two applications of nanorobotics.	(10)