Code No. : B03/108

Or

Explain biotechnological approach for drug designing.

(D) What do you mean by biological inhibitors in drug designing?12

Or

Give detail account on pharma and biology with their applications.



Roll No	Total No. of Sections : 4		
	Total No. of Printed Pages: 4		

Code No.: B03/108

III Semester Examination

M.Sc. BIOTECHNOLOGY

Paper I

[Instrumentation, Nanobiotechnology and Drug Designing]

Time : Three Hours] [Maximum Marks : 80 [Min. Passing Marks : 16

Note: Part A and B of each question in each unit consists of Very Short Answer Type Questions which are to be answered in one or two sentences. Part C (Short Answer Type) of each question will be answered 200-250 words. Part D (Long Answer Type) of each question should be answered within the word limit 400-450.

Unit-I

(A) What is the principle of HPTLC?
 (B) What do you mean by centrifugation?
 (C) Describe UV visible spectroscopy.

Code No. : B03/108			Code No. : B03/108	
	Or			Unit-III
	Explain Physico Chemical technique.		3. (A)	Mention four uses of nanoparticle. 2
(D)	Describe principle and application of HPL detail with diagram.	C in 12	(B)	Mention the existence of nanobiotechnology. 2
	Or		(C)	Describe thin film of nanowires and their uses.
Give detail account on Electron spin resonance.		ance.		
	Unit-II			Or
2. (A)	What do you understand by specimen ?	2		What is the role of nanoparticle in drug delivery?
(B)	What is AFM ?	2	(D)	Explain nanoparticle characterization in detail.
(C)	Describe X-Ray diffraction and their use	es in		12
	Biology.	4		Or
	Or How you will explain crystals and to symmetries?	heir		Give detail account on biological production of nanoparticle.
(D)	•	C		Unit-IV
(D)	Describe principle and application		4. (A)	What is chemistry of drug designing? 2
	lyophilization in detail.	12	,	
	Or		(B)	Mention social impact of Drug. 2
	Differentiate TEM and SEM with detail acco	ount.	(C)	List few examples of biological drugs. 4
	[2]			[3] P. T. O.