This question paper contains 2 printed pages]

## NY-117-2023

### FACULTY OF SCIENCE

# M.Sc. (Second Year) (Fourth Semester) EXAMINATION

### **NOVEMBER/DECEMBER, 2023**

#### **BIOTECHNOLOGY**

Paper BT-XV

(Pharmaceutical Biotechnology)

(Friday, 8-12-2023)	Time: 2.00 p.m. to 5.00 p.m
Time—Three Hours	Maximum Marks—75
N.B.:=(i) All questions are compulsory.	
(ii) All questions carry equal marks	
1. Explain in detail various types of secondar	ry metabolites and add a note or
their characteristic features.	65° 15° 15°
Or s	
What is microbial resistance? Explain in bri	ef various mechanisms of microbia
resistance against antibiotics.	15
2. Write a detailed account on Corona and	Ebola viruses. 15
or second	
Explain in detail mechanism of action of	anticancer drugs. 15
What is protein engineering? Explain in detail various methods of protein	
engineering.	15

Explain in detail Edman's degradation method of sequencing of amino acids and add a note on its limitations. 15

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4.	Explain in brief various stages of drug discovery.	
	Or	
	Explain in detail various toxicity tests in animals.	15 A
5.	Write short notes on any three of the following:	3×5=15
	(a) Corona virus	A THE STATE OF THE
	(b) Antimicrobial drugs	
	(c) Two hybird phage display	
	(d) Indian pharmacopoeia	AST SHIP
	(e) Clinical trials of drugs.	
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