This question paper contains 2 printed pages]

note on units radioactivity.

## ST-84-2022

## FACULTY OF SCIENCE

## M.Sc. (First Year) (Second Semester) EXAMINATION **MAY/JUNE**, 2022

(CBCS/New Pattern)

**BOTANY** 

Paper-VI

		(Bioinstrumentation and Met	hods in Biology)	
(Wednesday, 29-06-2022)  Time— 3.45 Hours			Time: 9.30 a.m. to 1.15 p.m.  Maximum Marks—75	
	(ii)	All questions carry equal marks		
	(iii)	Draw well labelled diagrams wh	nerever necessary.	
1.	Describ	oe in detail principle, working a	and applications of Fluorescence	
	Microsc	cope.	25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
		Or		
	Describ	e in detail process of microtomy.	15	
2.	N 87 87 15 1	e in detail principle and application tography.	as of paper chromatography and gas	
		Or S		
	Describ meter.	e in detail principle, working and	applications of autoclave and pH 15	
3.	Describ	e Beer Lambert's law. Explain in	detail principle and techniques of	
000	colorim	eter.	15	
500		Or		
500	Describ	e in detail uses of radioisotopes in L	ife Science and Biotechnology. Add a	

15

P.T.O.

W I		(2)	-2022
4.	Desc	cribe in detail principle and applications of Gel electrophoresis.	15
		Or Significant Control of the Contro	
	Desc	cribe in detail western blotting technique. Add a note on its application	ns in
	Life	Science.	15
5.	Writ	te short notes on (any $three$ ) :	15
	(a)	Compound Microscope;	200
	(b)	Principle and applications of Laminar Air Flow;	
	(c)	Radiation hazards and laboratory handling methods;	
	( <i>d</i> )	Principle and applications of Centrifuge.	