This question paper contains 2 printed pages]

NEPNY-23-2023

FACULTY OF SCIENCE AND TECHNOLOGY

M.Sc. (NEP) (First Year) (First Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

BOTANY

Paper SBOTC-402

(Diversity of Cryptogams)

(Friday, 22-12-2023)	Time: 10.00 a.m. to 1.00 p.m.
Time—Three Hours	Maximum Marks—80
N.B. := (i) Question No. 1 is compulsory.	
(ii) Of the remaining, attempt any	three questions.
(iii) Draw neat and labelled diagra	ms wherever required.
1. Write brief notes on the following:	20
(a) Types of flagella in algae	A STATE OF THE STA
(b) Heterocyst	
(c) Sporophyte of Riccia	
(d) Heterospory in Pteridophytes.	
2. Describe in brief:	
(a) Thallus organization in algae.	10
(b) Ultrastructure of algal cell.	10

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3.	Write	in brief:	
	(a)	General morphology and asexual reproduction in Chlorophyta.	10
	(<i>b</i>)	General morphology and sexual reproduction in Xanthophyta.	10
4.	Descri	ibe in brief:	
	(a)	Internal structure of Marchantia thallus.	10
	(<i>b</i>)	Anatomical features of Anthocerotales.	10
5.	Descri	ibe in brief:	
	(a)	Morphological and anatomical characters of Psilotum.	10
	(b)	Stelar evolution in Pteridophytes.	10
6.	Write	brief notes on the following:	20
	(a)	Pigments and reserve food in algae	
	(b)	Macrandrous and Nannandrous conditions in Oedogonium	
	(c)	Economical and ecological importance of Sphagnum	
	(d)	Strobilus in Equisetum.	