This question paper contains 2 printed pages]

NEPRT-142-2024

FACULTY OF SCIENCE AND TECHNOLOGY??

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

APRIL/MAY, 2024

BOTANY

Paper SBOTC1453

(Plant Anatomy and Embryology of Angiosperms)

(Tuesday, 23-04-2024)

Time: 10.00 a.m. to 1.00 p.m.

Time—Three Hours

Maximum Marks—80

- Note := (i) Question No. 1 is compulsory.
 - (ii) Of the remaining attempt any three questions.
 - (iii) Draw neat and well labelled diagrams wherever necessary.
- 1. Write brief notes on the following:

20

- (a) Cytological and molecular aspects of SAM
- (b) Development of leaf
- (c) Pollen wall
- (d) Allergic properties of pollen.

P.T.O.

W		(2) NEPRT-	-142-2024
2.	Descr	ibe in detail :	
	(a)	Organization of RAM.	10
	(<i>b</i>)	Wood development in relation to environmental factors.	10
3.	Descr	ibe in detail :	
	(a)	Types and function of secretory tissue.	10
	(b)	Structure and types of stomata.	10
4.	Descr	ibe in detail :	
	(a)	Development of male gametophyte.	10
	(b)	Development of dicot embryo.	10
5.	Descr	ibe in detail :	
	(a)	Role of Palynology in taxonomy.	10
	(<i>b</i>)	Pollen storage and viability.	10
6.	Write	brief notes on the following:	20
	(a)	Scope of histology	
	(b)	Structure and types of trichomes	
	(c)	Polyembryony	
	(d)	Pollen calendar and its importance.	

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