2021

BOTANY — HONOURS

Second Paper

(Group - A)

Full Marks: 50

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

1.	Answer the following questions:	
	(a) What are peristome teeth? Mention their function.	2
	(b) Distinguish between elater and pseudoelater.	2
	(c) Name one pollution indicating moss.	1
	(d) Define coal ball.	1
	(e) Mention the different periods of Palaeozoic Era in ascending order.	2
	(f) Which type of rock is best suitable for preservation of fossils? Why?	2

2. Outline the Proskauer's classification (1957) of bryophytes upto class with salient characters and examples. Discuss the spore dispersal mechanisms in *Marchantia*, *Anthoceros* and *Funaria* with appropriate diagrams.

6+3+3+3

Or,

Write notes on the following:

- (a) Importance of bryophytes in plant succession.
- (b) Homologous theory of alternation of generation.
- (c) Progressive sterilization of sporophytes in bryophytes.

5+5+5

3. Describe sporoderm stratification as proposed by Erdtman and Faegri with labelled sketches. Briefly describe the exine ornamentation pattern in spores and pollen grains with example. What is compound aperture?

6+7+2

Or,

Write notes on the following:

- (a) Advantages and disadvantages of forensic palynology
- (b) Coalified compression and impression
- (c) Importance of fossil study.

5+5+5

Please Turn Over

T(I)-Botany-H-2A (2)

4. Write briefly *any two* of the following :

- (a) Types of endosperm development in angiosperms
- (b) Apospory and Apogamy
- (c) Pollen ovule ratio and its significance
- (d) Microsporogenesis in angiosperms.

5×2