X(3rd Sm.)-Botany-H/CC-5/CBCS

2022

BOTANY — HONOURS

Paper : CC-5

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.	Ansv	Answer any five questions :		
	(a)	Define ichno-fossil. Give an example.	1+1	
	(b)	What is sporopollenin? Mention its significance.	1+1	
	(c)	Name two commonly used radioisotopes for determining age of fossils.	1+1	
	(d)	Mention suffixes used for naming secondary xylem and seed of fossilised plants with exa	mples. 1+1	
	(e)	From which geological ages (Periods) Cooksonia and Lepidodendron were reported?	1+1	
	(f)	Write the full name of the reconstructed fossil plant where interseminal scale is found reconstructed the fossil?	l. Who 1+1	
	(g)	What is a pollen-calendar? Mention one of its uses.	1+1	
	(h)	Write the NPC number of a monoporate pollen grain.	2	
2.	Ansv	wer any two of the following :		
	(a)	Write a short note on Aeropalynology and its applications.	5	
	(b)	Give an illustrated account of the leaf anatomy of the reconstructed genus Cordaites.	5	
	(c)	Describe the pollen wall stratification pattern following Gunnar Erdtman with necessary di	agram. 5	
3.	Answer any three of the following :			
	(a)	Briefly describe the cellular permineralisation and coalified compression modes of fossil prese following J. W. Schopf (1975). Add a brief note on the importance of fossil study.	ervation 3+3+4	
		Give an account of the three-fold division of Indian Gondwana system and mention major meg assemblages of each division. Mention the index or marker plant fossil of each division.	7+3	
		organs of Calamites with necessary diagrams.	2+2+6	
		Describe the wood anatomy, pollen and ovule bearing organs of the reconstructed plant <i>Lygin</i> with labelled diagrams.	37314	
	(e)	Mention the differences between spores and pollen grains. Describe the different types of ornamentations with suitable diagrams.	f exine 3+7	