B.Sc. 1st Semester (Honours) Examination, 2017 (CBCS)

Subject: Botany

Paper: CC-II (Theory)

Time: 2 Hours Full Marks: 40

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words

as far as practicable.

Answer all questions.

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1.	Answer any five questions from the following:		2×5=10
	(a) What is gemma? What is the function of it?		1+1=2
	(b) What is the difference between protonema and gametophore?		
	(c) What is heterospory? Where it is found?		1+1=2
	(d) What do you mean by leptosporangiate and eusporangiate fern?		1+1=2
	(e) What do you mean by pycnoxylic wood? Cite an example.		1+1=2
	(f) Differentiate between seed and ovule.		
	(g) Name a gymnospermic plant where female cone is not formed. Mention to taxon.	wo fern chara	cters of the
	(h) Name one aquatic and one epiphytic gymnosperm.		1+1=
2.	Answer any two questions from the following:		5×2=10
	(a) Compare the sporophytes of Pellia and Marchantia with suitable diagrams.		3+2=
	(b) Write down the different types of steles found in Lycopodium with suitable diagram and example.		
			3+2=
	(c) What is coralloid root? What is trabeculae? Write the morphological : Selaginella.	nature of rhi	izophore o 1+1+3=
	(d) Describe female cone of Pinus with suitable diagram.		3+2=
3.	Answer any two questions from the following:		10×2=2
	(a) Draw and describe the sporophyte of Anthoceros. Mention its evolutionary sign	gnificance.	4+4+2=1
	(b) What is Telome? Who proposed the 'Telome Theory'? Illustrate the evol accordance with the 'Telome Theory' with diagram.	lution of Pter	ridophyta ii 1+1+8=1
	(c) Name one pteridophyta where amphiphloic siphonostele is found. Name the spore bearing structure of that Pteridophyte. Discuss the morphological nature of that structure with proper diagram.		
		1	+1+4+4=1
	(d) Describe the male and female strobilus of Gnetum with suitable labell angiospermic features of this genus.	led sketches.	Write two
