

PBK-003-0011004 Seat No. _____

B. Sc. (Sem. I) (CBCS) Examination

November / December - 2018 Botany : B - 101

(Plant Diversity)

Faculty Code: 003

Subject Code: 0011004

Time : $2\frac{1}{2}$ Hours] [Total Marks : 70

Instructions:

- (1) This question paper contains five questions. All questions are compulsory.
- (2) Write answers of all the questions in main answer sheet.
- (3) Draw neat and labelled diagram wherever necessary.
- (4) Figures to the right indicate full marks for the questions.
- 1 (a) Answer the following objective type questions: 4
 - (1) Who is known to be the pioneer in the field of plant taxonomy?
 - (2) What is mycology?
 - (3) Write down names of kingdoms of Whittaker's classification.
 - (4) Write down the two types of sexual reproduction in *Spirogyra*.
 - (b) Answer in brief: (any 1 out of 2)
 - (1) Define: Olericulture and Horticulture.
 - (2) Draw labelled diagram of Sargassum leaf.
 - (c) Answer in detail: (any 1 out of 2)
 - (1) Describe: General characters of Kingdom Monera.
 - (2) Describe: Cell structure of Spirogyra.

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	(a)	write note on: (any 1 out of 2)			
		(1)	Explain: Sexual reproduction in Spirogyra.		
		(2)	Explain: Sexual reproduction in Sargassum		
2	(a)	Answer the following objective type questions:			
		(1)	Whose classification you are following to study Fungi?		
		(2)	Mucor is also known as		
		(3)	Fruiting body of Agaricus is called		
		(4)	How many types of Hypha do fungi contain ? Name them.		
	(b)	Ans	wer in brief: (any 1 out of 2)	2	
	()	(1)	What is Torula condition? In which fungi of your course you find that?		
		(2)	Write down general characters of Class Basidiomycetes.		
	(c)	Ans	wer in detail : (any 1 out of 2)	3	
		(1)	Describe: Thallus structure of Agaricus.		
		(2)	Describe any three uses of fungi as Medicine.		
	(d)	Wri	te note on: (any 1 out of 2)	5	
		(1)	Explain: Asexual reproduction in Mucor.		
		(2)	Explain: Internal structure of gills of Agaricus.		
3	(a)	Ans	wer the following objective type questions.	4	
		(1)	Write any two names of genera that belong to division Hepaticopsida.		
		(2)	Why Bryophyta are called amphibian plants?		
		(3)	Write down the classification of Riccia.		
		(4)	Which type of Rhizoids are seen in Riccia?		

	(b)	Ans	wer in brief: (any 1 out of 2)	2
		(1)	Describe the vegetative reproduction through	
			tubes in Riccia.	
		(2)	Write general characters of class Hepaticopsida.	
	(c)	Ans	wer in detail : (any 1 out of 2)	3
		(1)	Describe the external characters of Riccia.	
		(2)	Describe vegetative reproduction by tubers	
			in Riccia.	
	(d)	Wri	te note on : (any 1 out of 2)	5
		(1)	Explain: Alternation of generation in Riccia.	
		(2)	Explain: Sporophyte of Riccia.	
4	(a)	Ans	wer the following objective type questions.	4
		(1)	Define: Pteridophyta.	
		(2)	Which generation is dominant in Pteridophyta?	
		(3)	Which type of leaf do Nephrolepis bear ?	
		(4)	The gamatphytic generation of fern is	
			called	
	(b)	Ans	wer in brief: (any 1 out of 2)	2
		(1)	Write down classification of Nephrolepis.	
		(2)	Draw labelled diagram of Nephrolepis leaflet.	
	(c)	Ans	wer in detail : (any 1 out of 2)	3
		(1)	Describe: Anatomy of Nephrolepis root.	
		(2)	Describe: Sorus and sporangia of Nephrolepis.	
	(d)	Wri	te note on: (any 1 out of 2)	5
		(1)	Explain: Alternation of generation in Nephrolepis.	
		(2)	Explain: Gamotophytic generation of Nephrolepis.	
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