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BSc3BotC301x B.Sc. Semester - 3 (CBCS) Examination

Seat No	:
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Oct/Nov. -2019 [NEW COURSE] Botany-B301 (Core)

Instru 1. Al	uctions quest	Hours s: ions are compulsory. the right indicate marks.	Marks: 70
Q-1	Give	the answer of following questions.	
	(A)	Answer the following and the	/1.45
	(1)	State difference between "Akinete" and "Heterocyst". Why the color of Batracherness.	(14)
	(2)	Why the color of Batrachospermum is violet as	(04)
	(2)	Why the color of Batrachospermum is violet or green even though it comes under Give the two pames of	
	(3)	two fidilles of the been 1	
	(4)	Give the classification of <i>Nostoc</i> .	
	(B)	Shortly answer any one and the	
	(1) (2)	Describe mailus structure - C P	(03)
	(C)		(03)
	(1)		
	(2)	Cocine manife structure c	(07)
Q-2		Describe mature structure of spermatangium and carpogonium in Batrachospermum the answer of follows:	n.
ν -	(A)	of full wing angels	um.
	(1)		(14)
	(2)		(04)
	(3)	Define relationship between phialides and sterigmata in Aspergillus? Define lomasome?	, ,
	(4)	Which true to	
	(B)	Which two types of enzymes secreted by Yeast for nutrition?	
	(1)		
	(2)	Discuss budding in Yeast.	(03)
	(C)	State the industrial application of Aspergillus and describe any one. Answer any one question in detail	
	(1)	Answer any one question in detail	
	(2)	Describe different types of life cycle in Yeast.	(07)
	(~)	Sexual reproduction in Aspergillus.	
Q-3	Give	the answer of fall	
	(A)	the answer of following questions.	4.6
	(1)	Answer the following question very shortly	(14)
	(2)	How many thalluses can produce by germination of Gamme in Marchantia?	(04)
	(3)	The well we morphologically differentiate male and female 41. It	?
	(4)	During which phase in life cycle of <i>Marchantia</i> reduction division occurs? How many peristome teeth are present in <i>Funaria</i> ?	
	(B)	Shortly answer any one question	
	(1)	Describe cross section of Marchantia thallus.	(03)
	(2)	Describe L. S. of Funaria archegonia.	, , ,
	(C)	Answer any one question in detail	
		Describe mature structure of Marchantia sporophyte.	(07)
	(1)	Describe mature structure of <i>Funaria</i> sporophyte.	21
	(2)	Describe mature structure of Fundina sporophyte.	

Q-4	Give	the answer of following questions.
ų-4	(A)	Answer the following question very shortly
	(1)	What is limile?
		In Selaginella, xylem is usually made of tracheids and vessels are absent.
	(2)	True or False?
	(2)	rullish time of stelle is observed in root of Adiantum?
(111=1	(3)	How many flagella are present in antherozoids of Adiantum?
	(4)	Shortly answer any one question
	(B)	Discuss importance of heterospory
	(1)	Describe Protostele and Haplostele
	(2)	Answer any one question in detail
	(C)	Describe L. S. of Selaginella strobilli.
	(1)	Describe L. S. of Setagmenta successful Describe internal structure of Adiantum sporophyll.
	(2)	Describe internal structure of Malaman appears
000000 0000	~.	the answer of following questions.
Q-5		Answer the following question very shortly
	(A)	Which types of leaves are present in Pinus?
	(1)	
	(2) (3)	In ground nut flowers are situated above ground but still fruits are produce underground
	(3)	- explain the statement.
	(4)	Give any two scientific name of Apiaceae family.
	(B)	Shortly answer any one question
	(1)	Describe the floral characters which come under Myrtales order.
	(2)	Describe the floral characters which come under unisexual series.
	(C)	A service any one question in detail
	(1)	Describe the Amaryllidaceae family with morphological characters, floral diagram,
	(0)	floral formula and any two examples. Describe L.S. of female cone of <i>Pinus</i> .
	(2)	Describe E.S. of female cone of 2 mins.

(07)

(03)

(07)