CENTRAL LIBRARY N.C.COLLEGE

2018/TDC/ODD/BOTG-101T/088

TDC (CBCS) Odd Semester Exam., 2018

BOTANY

(1st Semester)

Course No.: BOTGEE-101T/BOTDSC-101T

[Biodiversity (Microbes, Algae, Fungi and Archegoniate)]

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

UNIT-I

- 1. Answer any three of the following:
- 1×3=3
- (a) What is the full form of PPLO?
- (b) Name the organism in which RNA serves as a genetic material.
- (c) What is the most common method of reproduction in bacteria?
- (d) Who first discovered bacteria?

(Turn Over)

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2.	स्र Ans	wer any one of the following: 2
	(a)	What is bacteriophage? Give one example.
	(b)	What do you mean by Transduction?
з.	(a)	With suitable diagram, describe the process of Lysogenic cycle in bacteriophage. 5
	(b)	What do you mean by transformation? Describe the process of transformation in bacteria. 1+4=5
		Unit—II
4.	Ans	wer any three of the following: 1×3=3
	(a)	From where is agar-agar produced?
	(b)	What is the reserve food material of Red Algae?
	(c)	Name the characteristic pigment of Brown Algae.
	(d)	Name the female sex organ of Fucus.

5.	Ans	wer any one of the following:
	(a)	What do you mean by isogamy and anisogamy?
	(b)	What is heterocyst? What is its function?
6.	(a)	Describe the range of thallus structure in Algae with suitable diagram. 5
		Or .
	(b)	Describe the reproductive structures of Oedogonium with neat diagrams. 5
		Y 7 YYY
		UNIT—III
7.	Ans	Swer any three of the following: 1×3=3
7.		
7.	(a)	what is the reserve food material in
7.	(a)	what is the reserve food material in Fungi? Name a fungus which is important for
7.	(a) (b) (c) (d)	What is the reserve food material in Fungi? Name a fungus which is important for its use in genetic engineering.

J9**/1116**

J9/1116 (Turn Over)

(4)

8.	Ans	wer any <i>one</i> of the following:	2	l. An		- 2
	(a)	What do you mean by Coenocytic Hyphae?			'amphibians of plant kingdom'? Differentiate between homospory and	
	(b)	Differentiate between ecto- and endo-mycorrhiza.		ł, . /	heterospory.	à÷ u
9.	(a)	Describe briefly the life cycle of <i>Puccinia</i> .	5		Describe the process of reproduction in <i>Marchantia</i>	5
	()	Or	•	(b)	Or significant series for the stellar revolution in	
(b)	(b)	Write in brief about the structural organization of Lichen citing its	5		Pteridophytes.	
		importance.	5		UnitV	
		importance. UNIT—IV		3. An	UNIT—V swer any <i>three</i> of the following: 1×3	=3
10.	Ans	UNIT—IV wer any <i>three</i> of the following: 1×3	13	3. An (a)	swer any <i>three</i> of the following: 1×3 Name the gymnosperm which is the	=3
	Ans (a)	Unit—IV	13	- •	swer any <i>three</i> of the following: 1×3 Name the gymnosperm which is the source of 'sago' Write the name of the gymnospermic	=3
		UNIT—IV wer any <i>three</i> of the following: 1×3 Which bryophyte is commonly known as	13	(a)	swer any <i>three</i> of the following: 1×3 Name the gymnosperm which is the source of 'sago'	=3
	(a)	UNIT—IV wer any <i>three</i> of the following: 1×3 Which bryophyte is commonly known as 'peat moss'? Name the fertile part in capsule of	13	(a) (b)	Name the gymnosperm which is the source of 'sago' Write the name of the gymnospermic plant which has winged pollen grains. Name the shoot of gymnosperm that bears foliage leaves.	=3

(Continued)

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((6)

- 14. Answer any one of the following:
 (a) What is coralloid root?
 (b) Mention the economic importance of gymnosperms.
- 15. (a) With neat diagram describe the leaflet of Cycas.

Or

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(b) Write briefly on the female gametophyte of *Pinus*.

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