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

(a) What

TDC (CBCS) Odd Semester Exam., 2018

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BOTANY

(1st Semester)

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

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

Full Marks :: 50 igoinstand

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?

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(3)

VIII	wer any one of the following wer any one of the following what is bacteriophage? Give one
(a)	what is bacterioping example.
	example 1913antos
h	What do you mean by Transduction?

- 3. (a) With suitable diagram, describe the process of Lysogenic cycle in bacteriophage.
 - (b) What do you mean by transformation?

 Describe the process of transformation
 in bacteria.

 1+4=

UNIT-II

- 4. Answer 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. Answer 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.

Or

(b) Describe the reproductive structures of Oedogonium with neat diagrams.

UNIT-III

- 7. Answer any three of the following: $1\times3=3$
 - (a) What is the reserve food material in Fungi?
 - (b) Name a fungus which is important for its use in genetic engineering.
 - (c) What is VAM? recobering double

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(d) Which Fungi are commonly called 'gill' fungi?

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8. Answer any one of the following:	11. Answer any one of the following as 1948th .42
(a) What do you mean by Coenocytic Hyphae? (b) Differentiate between ecto- and endo-mycorrhiza.	(a) Why are bryophytestoconsidered (as 'amphibians of plant kingdom?' to santioqui pinnope and notine (d) (b) Differentiate betweenmhomospory and heterospory.
Or (b) Write in brief about the structural organization of Lichen citing its importance.	13. (a) With neat diagram describe the leastet of in in in in in Marchantia. Or Or (b) Write in brief the stelar separation in Pteridophytes. 5 UNITE-W
UNIT—IV	Ling of the
O. Answer any three of the following: 1×3=3 (a) Which bryophyte is commonly known as 'peat moss'?	 (a) Name the gymnosperm which is the source of 'sago' (b) Write the name of the gymnospermic
(c) Which pteridophyte is known commonly as 'house pail'? (d) Name one heterosporous pteridophyte.	plant which has winged pollen grains. (c) Name the shoot of gymnosperm that bears foliage leaves. (d) Which gymnospermic plant yields resin and terpentine?

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	Answer any one of the following is low (a) bWhat is coralloid root? The yellowing is considered to the conomic importance of the economic importance of the gymnosperms of the leaft of the cores of the leaft of the Cycas. The process of the leaft of the coronaction of the process of the leaft of the coronaction of the leaft of the leaft of the coronaction of the leaft o	e of (d)	2
3	(b) Write briefly on the female gametop The group of Pinus. Island an allow and allow and allow and allow and allow and allowed allowed and allowed and allowed and allowed and allowed allowed and allowed and allowed allowed allowed and allowed allowed allowed allowed allowed and allowed allow	hyte	5
E= 6	wer any three of the following: 1x Nume the gymnosperm which is the gaures of sugp' Write the name of the gymnospermic plant which has winged rollen grains. Name the shoot of gymnosperm that bears foliage leaves. Which gymnospermic plant yields resin and terpentine?	(a) (b) (b)	