2020/TDC(CBCS)/ODD/SEM/ BOTHCC-101T/135

TDC (CBCS) Odd Semester Exam., 2020 held in March, 2021

(a) a Who coined the word, virus and the

Mention the YNATOB

1 lo suppor (1st Semester)

Course No.: BOTHCC-101T

the phyment system

(Algae and Microbiology)

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

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- 1. Answer any ten of the following questions: $2 \times 10 = 20$
 - (a) Name the important elements required for microbial growth.
 - (b) Define attenuated vaccine. Give example.

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(Turn Over)

- (c) Who coined the word 'virus' and in oco which year? semes 650 (8080) DOT
- Name some viral diseases of plant.
- Mention the important characteristics of bacteria.
- Draw and label the structure of a bacteriophage.
- BOTHCOANT the pigment system Mention (g)Rhodophyceae.
- What are the different types of flagella found in algae?
- Mention the names of some nitrogenfixing algae.
- Point out the characteristic features of Polysiphonia.
- What are globule and nuclei?
- Write a brief note on the contribution of Fritsch.
- (m) Write a brief note on algae in industry.
- (n) What are isogamy and anisogamy?
- attenuated vaccine (o) What is Hfr strain?

- (p) Write the full form of TMV. What is its genetic material?
- Write two characteristic features of archaebacteria. 7. Discuss in detail the nutritional require
- What do you mean by bacterial conjugation?
- What do you mean by transduction?
- Name a mycoplasmal plant disease. 9. Furnish details on the following :

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Answer any five questions

- 2. Discuss the role of virus in vaccine production. How does virus help in scientific .01 8=8+81 Ectocarpus, research?
- 3. With schematic representation, give accounts of important metabolic activities of bacteria.
- 4. Point out the characteristic features of viroids and prions. Draw and label their structures to support your answer. 4+2=6
- 5. Write short notes on the following: 3+3=6
 - Lysogenic cycle
 - (b) RNA virus

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(Continued)

6.	Write in detail the general characteristics of bacteria. What are the different types of bacteria based on nutrition? 4+2=	=6
7.	Discuss in detail the nutritional requirement of bacteria. do not not to the interpretation of the continuation of the continu	6
8.	Write a note on the ecological groups of algae with examples.	6
9.	Furnish details on the following: 3+3=	=6
	(a) Reserve food in different groups of algae	1
	(b) Methods of reproduction in algae	
	Give an account of the asexual reproduction in Ectocarpus.	6
11.	Write short notes on the following: 3+3=	=6
	(a) Thallus structure of chlorophyceae	State of the last
	(b) Reproduction in cyanophyceae	
9=2		
3=6	*** Surveille stort nous on the relieving	

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