

PBD-003-001320

Seat No.

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

November / December - 2018

MB - 301 : Microbial Diversity (Old Course)

Faculty Code: 003 Subject Code: 001320

Time :	2.30 Hours] [Total Marks : 70					
Instru	ctions: (1) All questions are Compulsory. (2) Figures on right indicates total marks of the question. (3) Draw neat Diagrams wherever necessary.					
	bjective type questions: 20					
(1	,					
(2	•					
(3) Tm value of DNA is					
(4	is often called the Father of Taxonomy.					
(5	Give an example of Thermophile.					
(6	Bacillus subtilis and Bacillus megaterium are					
	shaped bacteria.					
(7) Colony of a Mycoplasma resembles to a					
(8) Serratia marcescens produces colour pigment.					
(9) Define Barophiles.					
(1	0) Give an example of spirochaete.					
(1	1) Tuberculosis is caused by					
(1	2) Give a name of disease caused by Rickettsia.					
(1	3) Give an example of yeast.					
(1	4) Give an example of Algae.					
(1	5) Give an example of Protozoa.					
(1	6) Mode of nutrition of Fungi is					
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	(17)	Define capsid.							
	(18)	Give an example of Bacteriophage.							
	(19)	Study of Virus is known as							
	(20)	Give an example of Plant virus.							
2	(a)	Answer in brief: (Any Three) 6							
		(1) What is Biodiversity?							
		(2) Explain SSM							
		(3) What are the locomotory organs of Protozoa.							
		(4) Explain structure of TMV.							
		(5) What are Cyanobacteria?							
		(6) What is Polyphasic Taxonomy?							
	(b)	Answer in detail : (Any Three) 9							
		(1) Explain Taxonomy Ranks.							
		(2) Explain Universal Phylogenetic tree.							
		(3) What are fruiting bodies?							
		(4) Discuss Thermophiles.							
		(5) Explain Ultra Structure of Algae with Diagram.							
		(6) What are Viriods and Prions.							
	(c)	Writes Notes on: (Any Two) 10							
		(1) Explain Lysogeny in. detail.							
		(2) Discuss economic importance of Fungi.							
		(3) Discuss economic importance of Algae.							
		(4) Describe in detail Halophiles.							
		(5) Discuss classification of animal viruses.							
3	(a)	Answer in brief: (Any Three) 6							
		(1) General features of Algae.							
		(2) What are Methanogens?							
		(3) What is plaque assay?							
		(4) What are oncogenic viruses? Give an example.							
		(5) Write down four properties of Actinomycetes.							
		(6) Write down four properties of Spirochaetes.							
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(h)	Answer	in	detail	(Any	Three
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- (1) Write a note on endosymbiosis.
- (2) Describe general features of Protozoa.
- (3) Write names of Major Divisions of Fungi.
- (4) Discuss Mycoplasma in Brief.
- (5) Explain chick embryo method.
- (6) What are molecular chronometers?

(c) Writes Notes on : (Any Two)

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- (1) Write a Note on Numerical Taxonomy.
- (2) Extremophiles.
- (3) Reproduction in Fungi.
- (4) Lytic Life cycle Of Virus.
- (5) Major Characters used in Taxonomy.