C 41809	(Pages:2)	Name	
C 41007		Reg. No·····	
SECOND SEMESTER B.Sc. DEGREE EXAMINATION, APRIL/MAY 2013			
	(CCSS)		
	Microbiology		
MB2 B02—MICROBIAL TAXONOMY			
MBZ BC	Z—MICHOBINE TIME	Maximum : 30 Weightage	
Time: Three Hours		2 2	
Part A			
I. Objective Type Questions. Answ	er <i>all</i> twelve questions:		
1 Who proposed three domain	classification?		
(a) Carl Woese.	(b) Linnaeu	(b) Linnaeus.	
(c) Haeckel.	(d) Whittak	(d) Whittaker.	
2 Prototroph can grown in:			
(a) Minimal medium.	(b) Enriched	l medium.	
(c) Special medium.	(d) Selective	e medium.	
3 Nitrifying bacteria oxidize nitrite to nitrate:			
(a) Nitrobacter.	(b) Nitroso	lobus.	
(c) Nitro somonas.	(d) Nitro so	ococeus.	
4 The causative agent of Q f	ever:		
(a) Rickettsia typhi.	(b) Rickett	sia rickettsii.	
(c) Coxiella burnetii.	(d) Mycopl	lasma.	
5 What is biovar?			
6 What is a Strain?			
7 What is hyperparasitism?			
8 What is cyanophages?			
9 Algal an fungal associatio	n is known as ———		
10 Tree like representation of	result of taxonomic analy	ysis is called	

11 The colonization of fungi on plant roots are called 12 One of the unicellular and uninucleated algae is

Turn over

 $(12 \times \frac{1}{4} = 3 \text{ weightage})$

2

Part B

- II. Short Answer Type Questions. Answer all nine questions:
 - 13 What is serotyping?
 - 14 What is stromatolites?
 - 15 What is dendrogram?
 - 16 What are capsomeres?
 - 17 What is prophage?
 - 18 What is prions?
 - 19 What is heteroduplex?
 - 20 What is facultative anaerobe ?
 - 21 What is Nutalism?

• $(9 \times 1 = 9 \text{ weightage})$

Part C

- III. Short Essay or Paragraph Questions. Answer any five questions:
 - 22 Explain methods to calculate IG + C content.
 - 23 Discuss about economic importance of algae.
 - 24 Explain sexual reproduction in fungi.
 - 25 Expalin five kingdom classification.
 - 26 Describe asexual reproduction of protozoa.
 - 27 Describe lytic and lysogenic cycle of bacteriphages.
 - 28 Give a brief account on RNA viruses.

 $(5 \times 2 = 10 \text{ weightage})$

Part D

- IV. Essay Questions. Answer any two questions:
 - 29 Discuss about major characteristics used in bacterial taxonomy.
 - 30 Describe Alexopoulose classification of fungi.
 - 31 Discuss about different levels of classification employed in bacterial taxonomy.

 $(2 \times 4 = 8 \text{ weightage})$