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SECOND SEMESTER B.Sc. DEGREE [SUPPLEMENTARY/IMPROVEMENT] EXAMINATION, APRIL/MAY 2015

(UC-CCSS)

Core Course—Microbiology

MB 2B 02—MICROBIAL TAXONOMY

Time: Three Hours Maximum: 30 Weightage

Part A

	Answer all the following.
Fill in the blanks:	
1 proposed th	ne five kingdom classification.
2 Anoxygenic phototroph	s do not evolve during photosynthesis.
3 Flexous spiral forms of	bacteria are known as
4 are the cell	wall deficient bacteria.
Choose the correct answer	:
5 A sexual spores arrange	ed in chains formed by molds with sepatae hyphae are:
(a) Sporang iospor	es. (b) Basidiospores.
(c) Conidiospores.	(d) None of these.
6 Which of the following	is a locomotory organ?
(a) Cilia.	(b) Flagella.
(c) Both (a) and (b). (d) None of these.
7 Who proposed three do:	main classification system?
(a) Karl Woose.	(b) Linnaeus.
(c) Haeckel.	(d) Alexopoulos.
8 is an examp	ple of a photosynthetic bacterium.
(a) Chlorobium.	(b) Clostridium.
(c) Corynebacteriu	m. (d) All of these.
Answer in a single word:	
9 Name a bacterium that	'eats' another bacterium.
10 Association of algae ar	ıd fungi.
11 Virus that infect bacte	ria.
12 Fungus associated with	ı plant roots.
	$(12 \times 4 = 3 \text{ weightage})$
	Turn over

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Part B

Answer all the following.

Comment on:

- 13 Cyanobacteria.
- 14 Chemolithotrophs.
- 15 Phage typing.
- 16 Ciliates.
- 17 Bacteriochlorophyll.
- 18 Serotyping.
- 19 Heteroduplex.
- 20 Basidiomycetes.
- 21 Dimorphic fungi.

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

Part C

Answer any **five** from the following.

Write short notes on:

- 22 Retroviridae.
- 23 Bacteriophage.
- 24 Ascomycetes.
- 25 Five kingdom classification.
- 26 Numerical taxonomy.
- 27 PCR.
- 28 Bergey's manual.

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

Part D

Answer any two of the following

Write essay on:

- 29 Various criteria used in bacterial classification.
- 30 Describe fungal classification proposed by Alexopoulose.
- 31 Describe the molecular methods used in taxonomy.

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