D 73702	(Pages	: 2)	Name
		R	eg. No
FIRST SEMESTER B.Sc. DEGREE	•	PPLEMENTARY, OVEMBER 2014	/IMPROVEMENT)
1	(UG-CC	SS)	
Core Co	urse—N	licr obiology	
MB 1B 01—GEI	NERAL	MICROBIOLOGY	
Гіте : Three Hours			Maximum: 30 Weightage
Section A			
I. Answer all <i>twelve</i> questions. Each que	stion car	ries 4 weightage:	
1 Acid fast staining is used to stain			
(a) Corynebacterium.		E.coli.	
(c) Mycoplasma.	(d)	Actinomycetes.	
2 Which among is a neutral dye:	` '		
(a) Eosinate methylene blue.	(b)	Crystal violet.	
(c) Malachite green.	(d)	Fulgen.	
3 Who developed aseptic technique	:		
(a) Robert Koch.	(b)	Jenner.	
(c) Louis Pasteur.	(d)	Paul Ehrlich.	
4 Which among is a spirocheate:			
(a) Bacillus cereus.	(b)	Borrelia.	
(c) Caryophanon.	(d)	Saprospira.	
5 What is temporal gradient?			
6 What is tyndalization?			
7 Give two examples for transport r	nedia.		
8 Write any two antiviral drugs.			
9 The protein present inflagellar fil	ament is		
10 The aerobic organism produce	er	nzyme to eliminate su	peroxide radicals.
11 A single isolation of pure culture i	is knowr	1 as	

12 The antimicrobial agents used to treat infections are called _____

Turn over

 $(12 \times ^{1}/_{4} = 3 \text{ weightage})$

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Section B

- II. Answer all nine questions. Very briefly:
 - 13 Phenolic compounds.
 - 14 Negative staining.
 - 15 Cold sterilization.
 - 16 Selective-differential media.
 - 17 Actinomycetes.
 - 18 Pleomorphic bacteria.
 - 19 HEPA filter.
 - 20 Goose neck experiment.
 - 21 Inclusion bodies.

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

Section C

III. Answer any five questions:

- 22 Structure of Bacteriophages.
- 23 "Is nutrient media" is a universal media? Explain.
- 24 Sterilization by radiation.
- 25 Methods to evaluate potency of antimicrobial agents.
- 26 Explain the principle and function of electron microscope.
- 27 Discuss about antiviral and antitumor chemotherapeutic agents.
- 28 Explain the structure and function of bacterial cell membrane.

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

Section D

- IV. Answer any two questions in detail:
 - 29 With neat diagram, explain the structure of a bacterial cell.
 - 30 Discuss about various staining methods employed in Microbiology to study the structure and morphology of Bacteria.
 - 31 Discuss about different Microscopes their mode of working and specific uses.

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