		Reg. No
SECOND SEMESTER B.Sc. DE	GR	EE EXAMINATION, MAY 2014
(UG—CCSS)		
Core Course	-Bi	otechnology
BT 2B 01—GENERAL MICROBIOLOGY		
Time : Three Hours		Maximum : 30 Weightage
I. Objective type questions. Answer all quest	tions	:
A. Multiple Choice:		
1 Acid fast staining is used to stain:		
(a) Corynebacterium.	(b)	E.coli.
(c) Mycoplasma.	(d)	Actiromycetes.
2 Serum can sterilized by:		
(a) Autoclaving.	(b)	Tyndallization.
(c) Pasteurization.	(d)	Filteration.
3 Which among is an enriched medium	:	
(a) Nutrient agar.	(b)	Blood agar.
(c) Potato dextrose agar.	(d)	LB agar.
4 Which one is a spirocheate:		
(a) Borrelia.	(b)	Vibrio.
(c) Nocardia.	(d)	Pseudomones.
B. Fill in the blanks :		
5 Microscope was invented by	-	
6 Undefined media are called		
7 Presence of bacterial capsule is demon	nstra	ated by technique.
8 The site of action of pencillin is		
C. Answer in one word		
9 The bacterium which used as biopest	icide	
10 The common media used for fungal co	ultiva	ation.
11 E.coli phages are known as.		
12 The organism which are reduced inorg	ganic	substance as their electron source are known as. $(12 \times \frac{1}{4} = 3 \text{ weightage})$

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II. Short Answer type questions. Answer all nine questions:

13 Dimorphism. 14 Potato dextrose agar.

15 Nucleocapsid. 16 L-form.

17 McIntosh Fildes Jar. 18 Capsule.

19 Psychrophiles. 20 Cold sterilization.

21 Group translocation.

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

- III. Short Essay or Paragraph Questions. Answer any five questions:
 - 22 Gram staining procedure and principle.
 - 23 Electron transport chain.
 - 24 Explain Embden Mayorhof pathway.
 - 25 Methods used for microbial growth measurement.
 - 26 Mycotoxins.
 - 27 Enumeration and cultivators of viruses.
 - 28 Typhoid fever.

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

- IV. Essay questions. Answer any two questions. Explain the following:
 - 29 Nutritional classes and nutritional grouping of baacteria
 - 30 Describe factors influencing microbial growth.
 - 31 Describe the ultrastructure of bacteria.

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