			Reg.	No
SECOND SEMESTER B.Sc. DEGREE EXAMINATION, MAY 2014				
(UG-CCSS)				
Core Course—Biotechnology				
BT 2B 01—GENERAL MICROBIOLOGY				
Time : Three Hours			М	aximum : 30 Weightage
I. Objective type questions. Answer all questions :				
A. Multiple Choice :				
1 Acid fast staining is used to stain :				
(a)	Corynebacterium.	(b)	E.coli.	
(c)	Mycopiaama.	(d)	Actiromycetes.	
2 Serum can sterilized by :				
(a)	Autoclaving.	(b)	Tyndellization.	
(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 demonstrated by technique.				
8 The site of action of pencillin is				
C. Answer in one word				
9 The bacterium which used as biopesticide .				
10 The common media used for fungal cultivation.				

(Pages : 2)

11 E.coli phages are known as.

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12 The organism which are reduced inorganic substance as their electron source are known as. (12 x $\frac{1}{4}$ = 3 weightage)

Turn over

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2

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.

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

- 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.

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