Seat No.:	
y Paper-103 () [Max. Marks:	70
option of question. eccessary.	
ive and gram positive bacteria. prosthecae and stalks. erial cell membrane. spore.	14
on source of electron and energy. nt of bacteria. al media.	14
microbes as means of microbial	14
gent.	

May-2015

14F-108

B.Sc., Sem.-II

Core Course-3: Microbiology (Basic Bacteriology

Time: 3 Hours]

Instructions: All questions are compulsory. (1) (2) On top of the page write clearly the (3) Draw necessary diagram wherever n 1. Answer any two: Draw and differentiate: flagella and gram negati (b) Describe general nature and significance of pili, Describe general nature and significance of bacte (c) (d) Draw and describe sporulation of bacterial endo 2. Answer any two: Describe nutritional diversities in bacteria based (b) Prepare a brief account on nutritional requirement Explain with examples: Selective and differentia (c) (d) Write note on colony characteristics of bacteria. 3. Answer any two: Explain: Killing, inhibition and removal of control. Explain use of filtration for microbial control. (b) (c) Enlist characteristics of an ideal antimicrobial ag Describe halogens and alcohols as antimicrobial chemical agents. (d) 4. 14 Answer any two: Describe principles of binomial system of nomenclature. Describe Whittaker's system of classification. (b) Describe Carl Woese system of classification. (c) Enlist salient features of Bergey's manual of systematic bacteriology. (d) 14F-108 1 P.T.O.

5. Answer the followings:

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- (1) Give one example of pleomorphic bacteria.
- (2) State the role of bacterial mesosome.
- (3) Name the bacterium whose capsule is composed of polypeptide.
- (4) Give one difference between autotrophs and phototrophs.
- (5) Name the carbon source present in N-agar.
- (6) What do you mean of pellicle growth of bacteria?
- (7) How moist heat kills the microbes?
- (8) Give one examples of ionizing radiation.
- (9) Define Sterilization.
- (10) What is Surfactant?
- (11) What is the difference between taxonomy and classification?
- (12) What are protists?
- (13) What is 16S rRNA?
- (14) Give one example of archaebacteria.

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