



J-0831
Second Year B. Sc. Examination
March / April – 2013
Bioscience : Paper - V
(Microbiology)
(Old Course)

Time : Hours]

[Total Marks : 70

Instructions :

(1)

<p>नीचे दशांशों में निशानीवाणी विगतो उत्तरवली पर अवश्य लक्षणी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : S. Y. B. Sc.</p> <p>Name of the Subject : Bioscience : Paper - V (OLD COURSE)</p> <p>Subject Code No. : 0 8 3 1 Section No. (1, 2,.....) : Nil</p>	<p>Seat No. : □ □ □ □ □ □ □ □</p> <p style="text-align: center;">Student's Signature</p>
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- (2) Figure to the right indicate full marks.
(3) Draw neat and labelled diagram wherever necessary.

1 Answers as directed. 12

- (1) Explain : Attenuation.
- (2) Describe in brief differential media with suitable example.
- (3) Enlist flagellation pattern.
- (4) State the differences between antiseptic and disinfectant.
- (5) What are vaccines ?
- (6) Define :
 - (a) Generation time.
 - (b) Abiogenesis.

2 Describe in detail chemical composition structure and functions of cell wall of gram -ve bacteria. 15

OR

- 2 (1) Describe in brief general aspects of yeast and mold. 9
- (2) Write a note on types of microscopy. 6

3 Write an essay on - Host defense mechanism. **14**

OR

3 Write a note on : **14**

- (1) Heat sterilization.
- (2) Normal flora of RT.

4 Explain in brief techniques used for measurement of cell-mass and cell number. **14**

OR

4 Write a note on : **14**

- (1) Dyes and Stains.
- (2) Anaerobic cultivation.

5 Write short notes : (any three) **15**

- (1) Bacterial capsule.
- (2) Acid-fast staining.
- (3) Invasiveness.
- (4) General classification of microbes.
- (5) Louis Pasteur.
