



SB-0619
First Year B. Sc. Examination
March/April – 2011
Introduction Of Microbiology : Paper - II

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

<p>नीचे दशांशके निशानीवाणी विगतो छनारवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : F. Y. B. Sc.</p> <p>Name of the Subject : Introduction Of Microbiology : Paper - 2</p> <p>Subject Code No. : 0 6 1 9 Section No. (1, 2,.....): NIL</p>	<p>Seat No. : [][][][][][][]</p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center; margin-top: 10px;">Student's Signature</div>
---	---

- (2) Figures to the right indicate full marks of the questions.
- (3) Draw neat and labelled diagrams wherever necessary.

1 Answer the following : 14

- (a) Give any two contributions of Louis Pasteur in the field of microbiology.
- (b) What are fluorochromes ? Give one application of fluorescence microscopy.
- (c) What is mordant ? Give two example of it.
- (d) Give two functions of pili.
- (e) How disinfectant differs antiseptic ? Give one example of each.
- (f) What is stalk ? Give one example of bacterial genus that possess it.
- (g) Name two methods used for long term preservation of cultures.

- 2** Explain/comment on the following : **12**
(a) Cytoplasmic inclusion are important for bacteria.
(b) Electron microscope has high resolving power.
- OR**
- 2** (a) Phenolic compounds are antimicrobial agent.
(b) Differential staining techniques are useful in clinical diagnosis.
- 3** Write an essay on : **10**
Spontaneous generation V/s Biogenesis.
- OR**
- 3** Write an essay on : **10**
"Moist heat V/s Dry heat as sterilizing agent".
- 4** Justify the following statement : **10**
Different methods are used for specimen preparation in TEM.
- OR**
- 4** Justify the following statement : **10**
Different techniques are used for isolation of pure cultures.
- 5** Answer any two of the following : **12**
(a) Describe the principle of staining.
(b) How endospore formation occurs in bacteria ?
(c) Describe mode of action and applications of ethylene oxide.
- 6** Write short notes on any **two** of the following : **12**
(a) Phase contrast microscopy- Principle and application.
(b) Positive V/s negative staining.
(c) Morphological characteristics of bacteria.
-