

- 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.
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