



**Q.2** Write short notes on **ANY THREE** of the following: [12]

- a) Prions
- b) General characteristics of protozoa
- c) Continuous cell culture
- d) Bacterial capsule

**Q.3** Attempt **ANY FOUR** of the following: [12]

- a) Write general properties of viruses.
- b) Discuss the structure and functions of Poly  $\beta$  hydroxybutyrate (PHB) granules.
- c) Describe cell wall of Gram negative bacterium.
- d) Mention the merits and demerits of 'Diploid cell culture'.
- e) Give the general properties of *Mycoplasma*.

**Q.4** Attempt **ANY TWO** of the following: [12]

- a) Discuss the structure and functions of bacterial flagellum.
- b) Explain 'Embryonated Egg Technique' for cultivation of viruses.
- c) Describe general properties and significance of algae.

**Q.5** Attempt **ANY TWO** of the following: [12]

- a) Describe 'Fluid Mosaic Model' of bacterial cell membrane.
- b) Give general properties and significance of *Rickettsias*.
- c) Discuss different subunits of bacterial ribosomes and give its medical significance.

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