

**The West Bengal University of Health Sciences**  
**MBBS 2nd Professional Examination (Old Regulation) September 2022**

Subject : Microbiology  
Paper : I

Full Marks : 40  
Time : 2 hours

*Attempt all questions. The figures in the margin indicate full marks.*

1. a) Mention common methods of sterilization in a microbiological laboratory indicating suitability of its choice. How functioning of an autoclave can be monitored ? How the potency of a disinfectant solution can be evaluated ? 4+3+3

*Or*

- b) Define helminthes. Outline the general characters of cestode. Classify cestodes along with examples. Write briefly on the laboratory diagnosis of cysticercosis. 1+2+3+4
2. Write short notes on **any three** of the following: 3 x 4
- a) Scrub typhus.
  - b) Heterophile antigen.
  - c) Bacterial growth curve.
  - d) Escherichia coli.
3. Comments on **any three** of the following: 3 x 4
- a) Staphylococcus causes localized lesions while streptococcus causes spreading type of lesions.
  - b) All bacteria do not obey Koch's postulates.
  - c) Drug can lead to various types of hypersensitivity reactions.
  - d) Result of a single widal test is not treated as confirmatory.
4. Differentiate between the following: 3 x 2
- a) Enriched media and enrichment media.
  - b) Fumigation and sporicidal disinfection.
  - c) Agglutination and precipitation.