The West Bengal University of Health Sciences MBBS 2nd Professional Examination, November 2021

Subject: Microbiology

Full Marks: 40 Time: 2 hours

Paper: I

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

- 1. a) One young adult male patient was brought to OPD with history of fever for 2days along with headache, vomiting and convulsion. On examination, there was neck rigidity and Kernig sign 1+3+6 positive.
 - i) What is the probable clinical diagnosis?
 - ii) Name the causative organism responsible for it.
 - iii) How will you plan for confirmation of the case in laboratory?

Or

- b) A middle-aged person is suffering from low grade fever for 2 months along with cough and hemoptysis and gradual weight loss. Acid fast bacilli found in the sputum smear examination.
- i) What is your probable diagnosis?
- ii) Name the etiological agents...
- iii) Briefly discuss the procedure adopted in the laboratory for the identification and isolation of AFB from sputum sample.
- iv) How the immune status of such a patient can be assessed.

1+2+4+3

2. Write short notes on any three of the following:

 3×4

- a) Atypical Mycobacteria.
- b) Fimbria.
- c) IgE.
- d) Group B streptococcus.
- 3. Comments on any three of the following:

 3×4

- a) VDRL positivity does not necessarily mean Treponema pallidum infection.
- b) Blood culture is an important test in diagnosis of Enteric fever.
- c) Sterilization by moist heat may be done at different temperatures.
- d) ELISA can be done in different ways.
- 4. Differentiate between the following:

 3×2

- a) Exotoxin and Endotoxin.
- b) Agglutination and precipitation.
- c) Selective and Enrichment media.