

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

Subject : Microbiology
Paper : I

Full Marks : 40
Time : 2 hours

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 2 days along with headache, vomiting and convulsion. On examination, there was neck rigidity and Kernig sign positive. 1+3+6
- 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 x 4
- a) Atypical Mycobacteria.
- b) Fimbria.
- c) IgE.
- d) Group B streptococcus.
3. Comments on **any three** of the following: 3 x 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 x 2
- a) Exotoxin and Endotoxin.
- b) Agglutination and precipitation.
- c) Selective and Enrichment media.