

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

Subject : Microbiology
Paper : I

Full Marks : 40
Time : 2 hours

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

1. a) A 40 year old man came to the OPD with a history of fever for 2 weeks. He had coated tongue, relative bradycardia, mild hepatosplenomegaly and a rash of Roseola spots.
What is your diagnosis ? What are the causative organisms ? How will you proceed for diagnosis in the laboratory? 1+2+7

Or

- b) One young male patient came to the OPD with painless penile ulcer for 7days. He had a history of exposure. 1+2+6+1
- i) Name the probable clinical condition.
ii) Name the causative organism, responsible for it.
iii) How will you confirm the case in the laboratory?
iv) Enumerate the other important test to be done in this situation.

2. Write short notes on **any three** of the following: 3 x 4
- a) L. J. Media.
b) Type I Hypersensitivity.
c) Bacterial spore.
d) Tetanospasmin.
3. Comments on **any three** of the following: 3 x 4
- a) Moist heat is more effective than dry heat in sterilization.
b) Secondary immune response is more prompt than primary immune response.
c) Microbial wastes should be segregated before disposal.
d) Isolation of corynebacterium diphtheria from clinical sample does not confirm diphtheria.
4. Differentiate between the following: 3 x 2
- a) Typical and atypical mycobacteria.
b) Streptococcus & staphylococcus.
c) Gram positive and gram negative cell wall.