

The West Bengal University of Health Sciences
M.B.B.S. 2nd Professional Examination, 2016

Subject: Microbiology**Time: 2hrs****Paper: I****Full Marks :40**

Use Separate answer script for each group

Attempt all questions. The figures in the margin indicate distribution of marks in each question.

Group – A

1. a) A child has been brought to the hospital emergency with passage of rice water stool and severe dehydration with tachycardia and feeble pulse. What is your provisional diagnosis? Write down the pathogenesis of the disease. Give an outline of laboratory diagnosis of the disease. 1+3+6

or

- b) A male baby of 4 weeks has been admitted to the hospital with fever, drowsiness, irritability, vomiting and photophobia. On examination there was neck rigidity and CSF was turbid. What is your clinical diagnosis? Name the predominant bacterial agents causing such illness. How will you proceed to diagnose the case in the laboratory? 1+3+6

Group - B

2. Write short notes on (**any three**) : 3 x 4
- a) Toxic shock syndrome
 - b) Bacterial capsule
 - c) IgA
 - d) Satellitism

Group - C

3. Comment on (**any three**) : 3 x 4
- a) T helper cells have a major role in immune response
 - b) All diphtheria bacilli are not toxigenic
 - c) Passive immunization is helpful in certain conditions
 - d) For the diagnosis of infective conditions a rise in titre of antibodies is more meaningful

Group – D

4. Differentiate between : 3 x 2
- a) Streptococcus pneumonia and Streptococcus viridans
 - b) Cell wall of gram positive and gram negative bacteria
 - c) Anthrax bacilli and Anthracoid bacilli