

The West Bengal University of Health Sciences
M.B.B.S. 2nd Professional Examination, 2008

Subject: Microbiology
Paper: II

Time: 2hrs
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) AN epidemic of high fever with severe headache and progressive drowsiness within a few such cases show clear CSF. Name the probable diagnosis and aetiological agent. Write down the mode of spread and laboratory diagnosis of such cases.

or

b) a 15 year boy presented with headache, malaise, loss of appetite, moderate fever and yellowish discoloration of urine. He has a past history of minor injury two months back, treated with wound repair and some injections. Name the agent(s) responsible for the clinical condition. How will you establish the clinical diagnosis? What prophylaxis could have prevented the condition.

Group - B

2. Write short notes on (**any three**) : 3 x 4
- a) Cytopathic effect
 - b) Hydatid cyst
 - c) Mycetoma
 - d) Onco RNA virus

Group - C

3. Comment on (**any three**) : 3 x 4
- a) Negative stain of CSF has an important role in laboratory diagnosis of meningitis in AIDS cases.
 - b) Replace does not occur in transfusion malaria.
 - c) Influenza viruses are known to undergo antigenic variation
 - d) Anemia is frequently a result of parasitic infections

Group – D

4. Differentiate between : 3 x 2
- a) Direct Immunofluorescence test and Indirect Immunofluorescence test.