

MICROBIOLOGY**2009****Second Paper****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 40year truck driver presented to OPD with history of fever, weakness, wasting and chronic diarrhea for last one month. What is the probable clinical diagnosis? What is/are the etiological agent(s)? How will you confirm the diagnosis? How will you prevent the disease in the community? 1+2+4+3

or

- b) A 40 year male from Bihar presented to the hospital with history of fever, severe weakness, pallor and palpitation. On examination he had hepatomegaly and a huge splenomegaly. What is the clinical diagnosis? What is/ are the causative agent(s) of this condition? How will you confirm the diagnosis in the laboratory? 1+1+8

Group - B

2. Write short notes on (**any three**) : 3 x 4
- a) Inclusion bodies
 - b) Saboraud's dextrose agar
 - c) Post kala-azar dermal leishmaniasis
 - d) Blackwater fever

Group - C

3. Comment on (**any three**) : 3 x 4
- a) Importance of universal precaution for health workers.
 - b) Dengue hemorrhagic fever commonly occurs in endemic areas.
 - c) *Taenia solium* infection is more dangerous than *Taenia saginata* infection.
 - d) Viral infection may result in malignancy

Group – D

4. Differentiate between : 3 x 2
- a) OPV and IPV in prevention of Polio
 - b) Trophozoites of *Plasmodium vivax* and *Plasmodium falciparum*.
 - c) Cell wall of Gram positive and Gram negative bacteria