

MICROBIOLOGY**2011****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 middle aged male patient was complaining of alternate day fever with chill and rigor for five days. Name the parasites responsible for this. How will you establish the laboratory diagnosis? What are the complication disease? 1+6+3
- or
- b) A non-immunised child with a history of fever and loose motion presented with left sided deltoid paralysis. Name the clinical condition and etiological agent. How will you diagnosis the case in the laboratory? Discuss briefly the vaccines against this agent. What is the principle behind the recent mass immunization strategy against this agent in our country? 2+3+3+2

Group - B

2. Write briefly on (**any three**) : 3 x 4
- a) Dimorphic fungi
 - b) Serological markers of HBV infection
 - c) Hydatid cyst
 - d) Inclusion bodies

Group - C

3. Comment on (**any three**) : 3 x 4
- a) Peripheral blood examination at mid-night is important for the diagnosis of classical filariasis.
 - b) Examination of gravid segment of Taenia helps in the identification of species.
 - c) Antigenic shift can cause pandemic
 - d) Varicella-Zoster differs from primary infection.

Group – D

4. Write the differences between : 3 x 2
- a) Street virus and Fixed virus
 - b) Trichophyton and Epidermophyton
 - c) Orthomyxoviridae and Paramyxoviridae