The West Bengal University of Health Sciences
M.B.B.S. 2nd Professional Examination, 2014

Subject: Microbiology **Time: 2hrs**
Paper: II **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 30 year old male from Pakur, Bihar has been admitted in the hospital with a history of continuous fever, weakness, blackening of skin and huge hepato-splenomegally 1+1+4+4
   i) What is the provisional diagnosis?
   ii) Name the causative agent
   iii) Describe the pathogenesis of the disease
   iv) How will you diagnose the disease in the laboratory?

   or

   b) A boy aged 10 years, residing in rural area with low socio-economic status attends the OPD with complaints of indigestion, weakness and occasional pain in the epigastrium. On examination he is found to be anaemic with low haemoglobin level. 2+4+4
   i) Name the probable helminths causing such clinical condition.
   ii) Discuss the pathogenesis of such disease
   iii) Discuss the laboratory diagnosis of the disease.

Group - B

2. Write short notes on (***any three***) : 3 x 4
   a) Occult filariasis
   b) Prion
   c) Oppotunistic fungi
   d) Cytopathogenic effect

Group - C

3. Comment on (***any three***) : 3 x 4
   a) Bacteriophages may cause genetic alteration in bacteria.
   b) Measles may cause CNS infection.
   c) Role of cytokines may be important in malaria.
   d) Viruses can be cultivated

Group – D

4. Differentiate between : 3 x 2
   a) Microfilaria of Wucheria brancrofti and Brugia malayi
   b) Actinomycotic and Eumycotic Mycetoma
   c) Floatation and Sedimentation methods of stool concentration techniques