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

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 ten year old boy suffering from thalassemia was admitted to the hospital with complaints of anorexia, indigestion and yellow discolouration of eyes and urine. On examination he had moderate jaundice. He also gave a history of multiple blood transfusions. What may be the probable diagnosis? How will you proceed to make a microbiological diagnosis? What prophylactic measures may be taken to prevent such a condition? 1+6+3

or

b) A 30 year old cachectic male migrant labour from attended the medical OPD with complain of fever, severe weakness, pallor and palpitation. On examination he had hepatomegaly and huge splenomegaly. What is the clinical diagnosis and the causative agent 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) Larva Migrans
   b) Japanese Encephalitis
   c) Dimorphic Fungi
   d) Prion Disease

Group - C

3. Comment on (***any three***) : 3 x 4
   a) Emergence of new dengue serotype in an endemic area usually leads to complications
   b) Culture is necessary for identification of Dermatophytes
   c) Microfilaria can be demonstrated in stained smear from peripheral blood in any time of the day.
   d) Viruses are very often responsible for diarrohea in children.

Group – D

4. Differentiate between : 3 x 2
   a) Cryptococcus and Candida albicans
   b) Definitive host and intermediate host
   c) T. solium and T. saginata

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