

MBBS 2nd Professional Examination, 2013**Microbiology****Paper II**

Time Allowed : 2 Hours

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 boy, having a history of dogbite 3 weeks ago has been admitted in the hospital with fever, headache and muscle spasm particularly while lying to drink water. 2+4+4
- i) What is the clinical diagnosis and etiological agent?
- ii) Discuss shortly, the laboratory diagnosis of the disease.
- iii) What is post exposure prophylactic treatment?

or

b) A 26 year old man, who is security guard by profession and working at Kolkata was brought to the emergency room of your hospital with fever, headache and diarrhea. As stated, the fever is accompanied by chill and rigor and coming intermittently for last 10 days. Each episode of fever persists for few hours and comes down with profuse sweating. For this symptoms he had been treated with some antibiotics by local medical practitioner. At the time of examination, his body temperature is raised, blood pressure was 110/70 and spleen was palpable.

- i) Name the probable clinical diagnosis.
- ii) the common causative micro-organism(s) and the vector implicated.
- iii) Describe the Laboratory diagnosis of such a case. 1+2+1+6

Group - B

2. Write briefly on (**any three**) : 3 x 4
- a) Cysticercosis
- b) Negri Bodies
- c) Rota virus
- d) Candida albicans

Group - C

3. Comment on (**any three**) : 3 x 4
- a) Interferon has some role in the containment of viral infection
- b) Influenza virus is usually associated with antigenic variation
- c) Relapse is associated with BT malaria.
- d) Complications of dengue virus are immunologically mediated.

Group – D

4. Differentiate between : 3 x 2
- a) Neural and non-neural vaccines against rabies
- b) Morphology of early trophozoites of plasmodium vivax and plasmodium falciparum
- c) Cestode and Nematode