

The West Bengal University of Health Sciences
MBBS 2nd Professional Examination, November 2021

Subject : Microbiology
Paper : II

Full Marks : 40
Time : 2 hours

Attempt all questions. The figures in the margin indicate full marks.

- 1) a) A 10 year old boy, residing in a rural area with low socioeconomic status attended to the OPD with complaints of indigestion, weakness and occasional pain in the abdomen. On examination he is found to be anaemic with haemoglobin level 8 gm/dl. 1+3+6
- i) Name the helminths causing such clinical condition.
 ii) Discuss the pathogenesis of such disease.
 iii) How do you proceed to establish laboratory diagnosis.
- Or*
- b) A 45 year old man, truck driver lay profession presents to the medicine OPD with unexplained fever, weight loss, chronic diarrhoea of more than one month and history of exposure .
- i) What might be the clinical condition?
 ii) Name the agents responsible for it?
 iii) Describe the approach to laboratory diagnosis of the condition.
 iv) Enumerate the opportunistic infections that might develop in advanced stage of the disease. 2+3+2+3
- 2) Write short notes on **any three of** the following: 3 x 4
- a) Germ tube test.
 b) Diagnosis of dengue.
 c) Cysticercosis.
 d) Negri bodies.
- 3) Comments on **any three** the following: 3 x 4
- a) TORCH agent detection test is very important during pregnancy.
 b) Virus can be cultivated in many ways.
 c) To diagnose HIV, a single rapid test is not confirmatory.
 d) Hook worm infection may be an important cause of anaemia in children in rural area.
- 4) Differentiate between the following: 3 x 2
- a) Ring form of plasmodium vivax and falciparum.
 b) Antigenic shift and drift.
 c) True hyphae & pseudohyphae.