

**The West Bengal University of Health Sciences**  
**MBBS 2nd Professional Examination (Old Regulation) September 2022**

**Subject : Microbiology**  
**Paper : II**

**Full Marks : 40**  
**Time : 2 hours**

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

1. a) A 36 year old man attended OPD with vomiting anorexia, malaise and yellowish discolouration of skin. He had an emergency operation following a road traffic accident 6 months back which required 2 units of blood transfusion.
- i) What may be the most probable diagnosis ?
  - ii) Name the viral agents responsible for the condition ?
  - iii) How will you proceed to confirm the diagnosis in the laboratory ?
  - iv) What are the vaccines available for prevention of the disease person suffering from.

1+1+6+2

**Or**

- b) A 10year old boy has been brought to OPD severe anaemia and weakness. What is the most common parasite responsible for the clinical condition ? Discuss the pathogenesis of anaemia. Write briefly laboratory diagnosis of this case.

1+3+6

2. Write short notes on **any three** of the following: 3 x 4
- a) Occult filariasis.
  - b) Extraintestinal amoebiasis.
  - c) Polio vaccines.
  - d) Dimorphic fungi.
3. Comments on **any three** of the following: 3 x 4
- a) Hookworm infection can lead to anemia.
  - b) Fungi can be classified in different ways.
  - c) Viruses may lead to malignancy.
  - d) Inclusion bodies can help in the diagnosis of some viral infections.
4. Differentiate between the following: 3 x 2
- a) Platyhelminthes and Nematelminthes.
  - b) Dermatophytosis and dermatomycosis.
  - c) Entamoeba histolytica and Entamoeba coli.