

MICROBIOLOGY

2010

Second Paper

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 HIV positive male complains of headache, fever, vomiting and altered sensorium. He showed signs of meningitis. CSF examination showed a capsulated budding organism.
What is your probable diagnosis?
How will you confirm your microbiological diagnosis?
Enumerate certain fungal pathogens that can produce meningitis.

Or

- b) A 40 year old man complains of anorexia, indigestion, hematemesis, and jaundice fever on and off associated with hepatomegaly. He gives history of blood transfusion given about 6 years back when he met with an accident in a private hospital in a small town.
What could be the aetiological agent? 1
What laboratory investigations you will perform to confirm the diagnosis? 6
How this disease could have been prevented? 2
As a responsible health officer what will be your advice to the community? 1

Group - B

2. Write briefly on (**any three**) : 3 x 4
 - a) Post exposure prophylaxis
 - b) Differentiate between ankylostoma duodenale and necator americanus
 - c) Differentiate between measles and German measles
 - d) Cysticercosis

Group - C

3. Comment on (**any three**) : 3 x 4
 - a) Hypnozoites are responsible for relapse of malaria
 - b) Lysogenic cycle
 - c) Differentiate between mucor and rhizopus
 - d) Sand fly

Group – D

4. Write notes on (**any two**) : 3 x 2
 - a) Autoinfection can occur in some worm infections: comment on
 - b) Dermato phytes
 - c) Comment on : observation period of 10 days is recommended when a biting dog can be observed in case of rabies