

## 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