

M.Sc 3rd Semester Examination , 2009

**BIOMEDICAL LABORATORY SCIENCE
AND MANAGEMENT**

PAPER — X/(U-20)

Full Marks : 40

Time : 2 hours

Answer all questions

The figures in the right-hand margin indicate marks

MODULE — 1

1. Answer any five: 1 × 5

(a) What are different forms of *P. vivax* found in peripheral blood ?

(b) What is the causative organism of bancroftian filariasis ?

(c) Why relapse occurs in vivax malaria ?

(d) What is recrudescence ?

(Turn Over)

(e) Name one helminth that can invade the brain.

(f) What is the habitat of *T. trichiura*?

(g) Name one helminth responsible for anaemia in rural areas.

(h) Name one flagellate which possesses undulating membrane.

2. Name the largest nematode. Why these nematodes are called wandering worms? Describe the modes of transmission. 1 + 1 + 6

Or

What is a whip worm? What is its habitat? Describe the morphology of adult worm. 1 + 2 + 5

3. What do you mean by rapid diagnostic test in malaria? What is HRP-2? What is pan PLDH? What is Pf PLDH? State their implications in rapid diagnostic tests. 1 + 1 + 1 + 1 + 3

Or

Describe the morphology of *E. histolytica* with diagram. 4 + 3

MODULE—2

1. Answer any *five*:

1 × 5

(a) Name one fungicide used as cream.

(b) Name two oral drugs that can be used to treat fungus.

(c) Name one fungus that can invade systems organs.

(d) Name one culture medium for fungal growth.

(e) Name one chemical that can stain the fungus.

(f) What are the contents of fungal cell wall?

(g) Write the causative organisms of mycetoma.

2. What are the sources of the body from where fungus can be obtained? What methods are to be adopted? How would you diagnose fungi in the laboratory?

2 + 2 + 4

(4)

Or

What is a mould ? How they reproduce ? Do they form true mycelia or pseudomycelia ? Give two examples of moulds. 2 + 2 + 2 + 2

3. Define Candidiasis. Describe the morphology of causative organism. Give two examples each of cutaneous and mucosal candidiasis. 2 + 3 + 2

Or

What is histoplasmosis ? What is the common causative organism ? What organs are affected ? What drug can you use to treat such cases ? 2 + 1 + 2 + 2