

2010**M.Sc.****3rd Semester Examination****BIO-MEDICAL LABORATORY SCIENCE & MANAGEMENT****PAPER—X (Unit-20)**

Full Marks : 40

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Module-I

1. Answer any five of the following : 1×5
- (a) What are different forms of *P. falciparum* found in peripheral blood?
 - (b) What is the longevity of *P. malarial* in human host?
 - (c) How would you differentiate *T. solium* eggs from *H. nana* eggs?
 - (d) What do you mean by a filariform larva?
 - (e) What is the habitat of *Giardia intestinalis*?
 - (f) Name one helminth that may cause cancer.
 - (g) What is the largest intestinal protozoa?
 - (h) Name one commensal intestinal protozoa.

(Turn Over)

2. What is the scientific name of pinworm? How is it transmitted? Draw the egg of pinworm.

1+5+2

Or

- (a) What is occult blood test? What is its significance?

1+1

- (b) What precautions one should follow in sending a faecal sample for laboratory testing.

2

- (c) Prepare a 'Report Form' to be used in a laboratory for stool sample examination.

4

3. What is the causative organism of Kala-azar? What is its vector? How would you diagnose a case of Kala-azar?

Or

Describe the morphology of *Trichomonas vaginalis*. Give its life cycle.

5+3

Module-II

4. Answer any five of the following : 1×5
- (a) Is endoplasmic reticulum present in a yeast cell ?
 - (b) Name one inorganic chemical substance present in the cell wall of yeast ?
 - (c) What reserve material a yeast can store ?
 - (d) Is yeast a procarbotic cell or an encaryotic cell ?
 - (e) Name a conidiospore bearing fungus.
 - (f) How a yeast multiplies ?
 - (g) Name one fungus that can produce aflatoxin.
 - (h) Name one opportunistic fungus that can complicate AIDS.

5. What fungus causes histoplasmosis ? In what environment the fungus multiplies ? Which animals are naturally infected ? How infection occurs ? How human beings are infected ? In parasitic stage which form of the fungus is present ? 8

Or

Name one fungus responsible for bronchopulmonary aspergillosis. What clinical symptoms may be present ? What investigations can be done ?

1+2+4

6. What fungus causes cryptococcosis? What are the organs that may be invaded? Who are at special risk? How would you diagnose the infection?

1+2+1+3

Or

What are dermatophytes? What are causative organisms? Where from they originate? What are clinical forms?

1+1+1+4
