

2012**M.Sc.****3rd Semester Examination****BIO-MEDICAL LABORATORY SCIENCE & MANAGEMENT****PAPER— BLM-302 (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. Write the correct answer (any five) : 1×5
- (a) Hypnozoites are found in the liver of falciparous / vivax malaria cases.
 - (b) *Entamorta histotestiea* is an endoparasite / ectoparasite.
 - (c) *Strongyloides stercoratis* can / cannot multiply in the human body.
 - (d) *Trichomonus vaginalis* posses / does not posses the undulating membrane.
 - (e) *Entamoeba gingirates* is pathogenic / non-pathogenic.
 - (f) *Necator americanus* can be or cannot be transmitted through breast milk.

(Turn Over)

(g) *D. Latum* is a two host / one host parasite.

(h) What do you mean by merozoite?

2. (a) What is the causative organism of Kala-azar?
 (b) How is it transmitted?
 (c) How would you proceed to diagnose a case suspected to be suffering from Kala-azar? 1+2+5

Or

- (a) Write the process of measurement of egg's diameter using Microscope.
 (b) State the steps for transmission of stool from general laboratory to referred laboratory.
 (c) Write the principle of occult blood test. 3+2+3
3. (a) What is the largest round worm in the human intestine?
 (b) Describe its life cycle.
 (c) Draw the diagram of different types of ova of this helminth that can be found in this stool. 1+3+3

Or

- (a) Name two filarial parasites present in our country.
 (b) What are the vectors of these worms?
 (c) How would you proceed to diagnose a case suspected to be suffering from filariasis? 2+2+3

Module-II
(Clinical Mycology)

4. Answer any five of the following : 1×5
- (a) Name two opportunistic pathogen.
 - (b) What do you mean by hospital acquire fungal infection ?
 - (c) Name one fungi that produces mycotoxin.
 - (d) How spores of *Microsporum* and *Trichophyton* differs ?
 - (e) Name the group of fungi that produces coenocytic hyphae.
 - (f) Write one causative agent of systemic mycosis infection.
 - (g) Name the major cell wall components of fungi.
 - (h) Write the full form of LPCB.
5. (a) What are the characteristic features for identifying the genus of 'Dermatophytes'.
- (b) Write down the procedure of identification of nail infection in 'KOH Preparation'.
- (c) State various factors responsible for fungal infection. 3+2+3

Or

- (a) What is systemic mycoses ?
- (b) Write down causal organism, symptoms and treatment for Histoplasmosis.
- (c) What is actinomycetoma ? 2+(1+2+1)+2

6. (a) Write short notes on : (2×3)+1

(i) Chromoblastomycosis.

(ii) Media for culturing pathogenic fungi.

(b) What are Keratophilic fungi ?

Or

(a) Write the process of lab diagnosis of 'Mycetoma'.

(b) What are the stains used for fungal staining? Write any one procedure of such staining.

(c) Write in brief on 'Germ tube preparation'.

2+(1+2)+2