2013

M.Sc.

3rd Semester Examination BIOMEDICAL LABORATORY SCIENCE AND 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. Answer any five of the following:

- 1×5
- (a) What do you mean by intermediate host?
- (b) What is the length of each division of stage micrometer?
- (c) What are the components of lugol iodine solution?
- (d) What are the preconditions those should be applied on the patient for accurate analysis of the stool sample.
- (e) Write any two features of scolex of T solium.
- (f) Name two drugs used to treat helminths infection.

- (g) Write the name of two protozoa parasites in human.
- (h) Name the causative agent for Kala-azar.
- 2. (a) Write the procedure for the measurement of diameter of protozoa's egg.
 - (b) State the procedure for the detection of parasite in stool by lugol's idonine reagent.

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- (a) Describe the morphological features of G. histolytica.
- (b) Classify helminths.
- (c) State the mode of Ascaris infection and briefly describe its various forms.

3+2+(1+2)

4+4

- 3. (a) Write the principle of occult blood test.
 - (b) State the procedure for detection of hidden blood in stool.
 - (c) Write the symptoms of filariasis.

2+3+2

Or

- (a) Describe the life cycle of any type of malarial parasite.
- (b) Describe the microscopic observational features to identify any two malarial parasites.

4+3

Module-II

- **4.** Answer any five questions of the following: 1×5
 - (a) Write any two characteristic features of fungus.
 - (b) Which is the major cell wall component of fungi.
 - (c) Name one dimorphic fungi.
 - (d) Name a solid media used for fungal culture.
 - (e) What is the primary entry point into the body for pathogenic fungi?
 - (f) What are opportunistic fungi?
 - (g) Name two antifungal antibiotics.
 - (h) Which antibiotic is generally used for preparation of culture media for fungi?
- **5.** (a) Briefly state the composition of any two culture media for diagnosis of fungal infection. Mention the target organism for each medium.
 - (b) How dill you collect samples to study fungal infection on skin?

(3+3)+2

Or

- (a) Name any three anti fungal agents and mention their mode of action.
- (b) Give two examples of moulds.

6+2

- 6. (a) How fungal infection can be diagnosed in the laboratory. Mention the name of different methods and describe any one in detail.
 - (b) What are the causetive agents for black and white piedra.

(2+3)+2

Or

- (a) Write short notes on mycotic Keratitis and Tinea nigra.
- (d) What are the general consequences of mycotic infections in human.

(2+2)+3