2014

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

(Diagnostic Parasitology)

1. Answer any five questions of the following : 1x5

(a) Write the name of any two stains leased for diagnosis of endoparasite.

(b) What so you mean by nocturnal type of endoparasite?

(c) Write the names of any two organs which are damaged by parasite causes Kala-azar.

(d) What do you mean by referral services for diagnosis of endoparasites?

(e) Write the name of one protozoa and one metazoa which are endoparasite of our body.

(Turn Over)
(f) When dehaemoglobinisation is required for endoparasite detection in blood film?

(g) Why urogenital swab is collected?

(h) What are the common methods for concentration of faecal specimen in connection to laboratory analysis?

2. (a) Write the procedure of collection of stool for parasite diagnosis.

(b) State in brief about the principle and protocol for the measurement of diameter of egg of parasite present in stool sample.

2+{3+3}

Or

(a) State the process of blood drops collection for blood film preparation for detection of malaria.

(b) How will you prepare thick film and thin film of blood for diagnosis of parasite of malaria?

(c) Describe the staining of blood film for malaria parasite detection.

2+{1 \frac{1}{2} + 1 \frac{1}{2}}+3

3. (a) Write the procedure for identification of parasite of filaria from mass scale blood sample collection during day time.

(b) State the serological diagnosis of filaria.

(c) Write the location of endoparasite of Gilaria in our body.

3+3+1
(a) Write the principle of occult blood test.
(b) State the protocol of occult blood test.
(c) Write two process of sputum collection for detection of parasite.

Module — II

(Clinical Mycology)

4. Answer any five questions from the following : 5×1

(a) Why fungi are PAS(+) in nature.
(b) What is sterigma?
(c) Write the difference between mycoses and mycosis.
(d) Write the name of one culture media for culture of spore of fungi.
(e) What do you mean by pseudomycillum?
(f) What do you mean by dermatomycoes?
(g) What are the samples collected from human body for diagnosis of fungal infection?

5. (a) Write the features of vegetative body of yeast.
(b) State the salient features of vegetative body of penicillum.
(c) Write the process of scrapping for sample collection for the diagnosis of fungal infection.
Or

(a) State in brief about the quality control of clinical mycology laboratory.

(b) State Giemsa staining protocol of fungi.

(c) Write in brief about the laboratory diagnosis of dermatomycosis

3+2+3

6. (a) Write the steps followed for staining of skin scrapping material in connection with mycosis.

(b) Write the names of different varieties of intermediate mycosis and systemic mycosis.

3+4

Or

(a) Write a short note on actinomycosis.

(b) Write the protocol of CSF analysis for diagnosis of fungal infection.

3+4