

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 : 1×5
- (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.
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.

2+(1 $\frac{1}{2}$ + 1 $\frac{1}{2}$)+3

3+3+1

Or

- (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. 2+3+2

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 mycoeces and mycosis.
 - (d) Write the name of one culture media for culture of spore of fungi.
 - (e) What do you mean by pseudomycillium ?
 - (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 penicillium.
- (c) Write the process of scrapping for sample collection for the diagnosis of fungal infection. 2+3+3

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

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