

M. Sc.

2018

4th Semester Examination

BIO-MEDICAL LABORATORY SCIENCE AND MANAGEMENT

PAPER—BLM-402

Subject Code—22

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.

Answer Q. No.1 and any three from the rest.

1. Answer any ten questions :

10×1

- (a) What do you mean by intermediate host ?
- (b) What is zoonotic parasite ?
- (c) What is gravid proglotid ?

(Turn Over)

- (d) Write the name of two blood flukes ?
- (e) What do you mean by coenocytic fungi ?
- (f) What is selective media ?
- (g) Valid sputum sample should contain at least how many numbers or pns cell in a microsurgical filed.
- (h) How *Entamoeba histolytica* is transmitted to the host ?
- (i) What do you mean by imperfect fungi ?
- (j) Write the name of two drugs used for the treatment of filaria.
- (k) What are the components present in Lugol's iodine solution ?
- (l) What do you mean by natural type of endoparasite ?
- (m) Why urogenital swab is collected ?
- (n) Write two features of vegetative structure of yeast ?
- (o) Name one larva found in stool sample.

2. (a) Write the morphological features and gout of transmission of *Giardia lamblia*.
- (b) What are the clinical symptoms of amebiasis ?
- (c) Write two morphological features of filariform larvae of nematodes ? 3+2+3+2
3. (a) Write the principle and protocol of occult blood test :
- (b) Write briefly MCMASTER egg counting technique for detecting of parasitic egg. (2+4)+4
4. (a) Write the name of two filarial nematodes.
- (b) Briefly describe the morphology of any one filarial worm.
- (c) Describe the life cycle of filarial worm. 2+3+5
5. (a) What do you mean by 'Selective and differential' media with example ?
- (b) What is the significance of 'Stationary phase' of bacterial growth curve ?
- (c) What is principle of acid fast stain ? Write the procedure of acid fast stain schematically. (2+1)+3+(2+2)

6. (a) Write briefly the pathological symptoms of blood Flukes.
- (b) How will you collect samples of study fungal infection on skin ?
- (c) Write down the process of collecting a sputum sample for microbiological evaluation.
- (d) Briefly describe the procedure of gram staining.

2+2+2+4