

Bio-Medical Laboratory Science and Management
MSc. Part-II Examination, 2007

DIAGNOSTIC PARASITOLOGY AND MICROBIOLOGY

PAPER-X/U-20

Full Marks : 50

Time : 2 hours

The figures in the right-hand margin indicate marks

*Candidates are required to give their answers in their
own words as far as practicable*

Illustrate and answers wherever necessary

UNIT-20

Answer Q. No. 1 and any *four* from the rest

Answer any *five* of the following :

2x5

- (a) What do you mean by Amoebic dysentery?
- (b) What is mycetoma ?
- (c) What is germ-tube formation test?
- (d) What is African sleeping sickness'?
- (e) Write the use of Mckonkey medium.

- (f) What are the characters of the toxins produced by *Clostridium tetani*?
- (g) Write the nutritional composition of factorial culture medium.
- (h) Mention the routes of entry of virus.
2. (a) What is the life-cycle of *Leishmania donovani* ?
- (b) Write the clinical features of Kala-azar.
- (c) How Kala-azar can be diagnosed? 3+2+5
3. (a) What is Spore?
- (b) Write the procedure of Ziehl -Neelsen staining.
- (c). What are the pathogenic and non-pathogenic spore bearing organisms ? 2+6+2
4. (a) Write the morphology and cultural characteristics of *Vibrio cholerae*.
- (b) Write the mode of infection of *Vibrio cholerae* of *Vivrio cholerae* infection.
- (c) How the laboratory diagnosis can be made ? (2+2)+2+4
5. (a) Write the composition and use of DCA media.

- (b) Describe the procedure of coagulase and urease test for bacterial identification.
- (c) What **precautions to be taken during** bacteriological examination of urine? (2+2)+(2+2)+2
6. (a) Write the structure of HIV.
- (b) Describe the sequence of events of the pathogenesis of HIV infection.
- (c) **How laboratory diagnosis can be made for the detection** of HIV ? 3+3+4
7. (a) Write down the causal **organism, diagnosis and treatment** of cryptococcosis.
- b) **What are opportunistic pathogens ? Give -two examples.** (1+3+2)+(2+2)