

M.Sc. 4th Semester Examination, 2012

**BIOMEDICAL LABORATORY SCIENCE
AND MANAGEMENT**

PAPER—BMLSM-401(Unit-26)

Full Marks : 40

Time : 2 hours

Answer all questions

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 the answers wherever necessary

MODULE – I

1. Answer any *five* of the following : 1 × 5
- (a) Compare sanitizer with antiseptic.
 - (b) What is resolving power of a microscope ?
 - (c) Name one media used to culture fungi.

(Turn Over)

- (d) Name a media generally used during antibiotic assay.
- (e) Write down the mode of action of alcohol in bacteria.
- (f) What is the utility of iodine in gram staining ?
- (g) What is incineration ?
2. (a) Write down the biochemical tests to differentiate streptococcus and staphylococcus. 4 + 4

Or

- (a) Write down the safety regulations of a biomedical laboratory.
- (b) How blood agar plates are prepared in the laboratory ? 6 + 2
3. Write down the functions and tasks of a quality control microbiology technician. 7

Or

- (a) Write down the primary and secondary culture media.

- (b) State in brief the inoculation test for *M.tuberculosis*. 3 + 4

MODULE – II

4. Answer any *five* of the following : 1 × 5

- (a) Name one antifungal antibiotic.
- (b) What are enteric bacteria ?
- (c) Write down any two important characters of actinomycetes.
- (d) Name one laboratory diagnostic list for pulmonary tuberuclosis.
- (e) Write the name of one test for laboratory diagnosis of renal infection.
- (f) What is counter stain ?
- (g) What is the full form of AFM ?

5. (a) What is Pfeiffer's bacillus ? Write down its gram nature and etiology.

- (b) How it can be diagnosed in the laboratory ? (2 + 2) + 4

(4)

Or

What is the utility of mycobacterial susceptibility test ? How such test can be done in the laboratory ? 4 + 4

- 6. Write down the laboratory diagnosis and treatment for gonorrhoea. 3 + 4**

Or

**How cholera can be diagnosed in the laboratory ?
Write down the symptom of this disease in human. 4 + 3**
