

**M.Sc. 4th Semester Examination, 2012**

**BIOMEDICAL LABORATORY SCIENCE  
AND MANAGEMENT**

**PAPER—BMLSM-402(Unit-27)**

*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) What do you mean by polygraph ?
- (b) What is fluorescence ?

( Turn Over )

(c) What do you mean by screen cassette film processing.

(d) Write down the Beer's Law.

(e) Write down one application of C.T.Scan.

(f) What do you mean by contrast media ?

(g) What do you mean by electro encephalogram ?

(h) Write down the basic modes of transmission of ultrasound.

2. (a) Write a short note on CAT and compare its method of visualization with conventional X-ray method.

(b) Write down any two major applications of centrifuge. (3 + 3) + 2

*Or*

(a) Write a short note on Endoscopy and its application.

(b) Write a short note on autoanalyzer with a diagram. (3 + 2) + (2 + 1)

3. (a) Write the working principle of flow cytometry with diagram.
- (b) Write the application of ELISA reader. (3 + 2) + 2

*Or*

- (a) Write the working principle of ultrasonography.
- (b) State the application of ultrasonography in specific condition. 4 + 3

### MODULE – II

4. Answer any *five* of the following : 1 × 5
- (a) Write the full form of ED.
- (b) Write the full form of NREM.
- (c) What do you mean by brain monoamine ?
- (d) What do you mean by hallucination ?
- (e) What do you mean by depolarization of nerve fibre.

- (f) Write the full form of MEPP.
- (g) What do you mean by psycho neuroimmunology ?
- (h) What do you mean by angiography ?
5. (a) Discuss the neural basis of erection of penis.
- (b) State the different causes of ED.
- (c) What do you mean by aminenergic-peptidergic axis for the neuro-endocrine regulation. 3 + 2 + 3

*Or*

- (a) Describe the basic features of electrical wave of different phases of sleep.
- (b) Discuss the peculiarities of deep sleep and REM sleep. 4 + (2 + 2)
6. (a) What do you mean by amenorrhea ?
- (b) Discuss the basis of psychogenic amenorrhea.
- (c) What is the ionic basis of hyperpolarization ?  
2 + 3 + 2

( 5 )

Or

- (a) What do you mean by manic patient ?
- (b) State in brief about parathyroid dysfunction that manifest neural disorder.
- (c) What is rage behaviour ? 2 + 3 + 2
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