

Total Pages—3

BMLT/IS/BI/P-I(U-II)/19

BMLT 1st Semester Examination, 2019

BASIC INSTRUMENTATION

PAPER –I

Full Marks : 40

Time : 2 hours

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

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

U – II

1. Answer any five questions : 2 × 5

(a) Write full form of TEM and SEM.

(b) Write any two difference between single beam and double beam spectrophotometer.

(Turn Over)

22+8 = 30

(2)

- (c) Write any two applications of fluorescence microscope ?
 - (d) What are the component of colorimeter ?
 - (e) How the greatest resolution in light microscopy can be obtained ?
 - (f) What do you mean by e-ELISA ?
 - (g) Write any two applications of electrophoresis.
 - (h) Write two applications of centrifuge.
2. (a) Define magnification.
- (b) Write principle, construction, working and application of phase contrast microscope. 2 + (2+2+2+2)
3. Write the working principle of blood cell counter. State the steps adopted for blood cell analysis through this counter. 5 + 5
4. How to get rid of mold contamination in Laminar flow hood ? Write the different components of laminar flow hood and write their function. 3 + 3 + 4

(3)

5. (a) What do you mean by TQM?

(b) Describe the basic components of TQM. 4 + 6

18 6. (a) Write the steps of S-ELISA.

(b) How do you calculate inter assay and intra assay variations?

(c) How does indirect ELISA differs from direct ELISA? 3 + 4 + 3