

2021

BMLT

(B.Sc. First Semester End Examination-2021)

PAPER-II

Full Marks: 40

Time: 02 Hrs

*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*

Group-A

- 1. Answer any five questions of the following: 5x2=10**
- a. Write the principle of RT-PCR?
 - b. What are the benefits of code of professional conduct?
 - c. What are the major effective communication in the laboratory.
 - d. What is proper Lab management?
 - e. Write two importance of laboratory quality.
 - f. Write the working principle of laminar air flow.
 - g. State the west gaurd rules.
 - h. Write the importance of Sandwich ELISA.

(2)

Group-B

2. Answer any four questions of the following: **5x4 = 20**
- a) Who is the father of chromatography? Write the principle of chromatography? 1+4
 - b) What is dry sterilization? Explain about different types of autoclaves? 1+4
 - c) What do you mean by Rf value? Explain about thin layer chromatography. 1+4
 - d) Write the difference between direct and indirect ELISA. 5
 - e) Discuss the various types of laboratory hazards and its prevention. 5
 - f) Mention different types of precautions you should have taken to avoid any accident while working in laboratory? 5
 - g) What do you mean by auto fluorescence? What is resolving power? What do you mean by phase change? 2+1+2
 - h) What is the working principle of spectrophotometer? Write its application? 4+1

Group -C

3. Answer any one question of the following: **1x10=10**
- a) Write the working principle, structure and application of phase contrast Microscope with suitable diagram? 3+4+3
 - b) What do you mean by quality management system? What are code of professional conduct for medical Lab personal? 6+4