

PE-523-CV-19

M.Sc. MICROBIOLOGY (4th Semester)

Examination, June 2022

COMPUTER FUNDAMENTALS & RESEARCH TECHNIQUES

Time : Three Hours]

[Maximum Marks : 80

[Minimum Pass Marks : 29

Note : Answer from both the Sections as directed. The figures in the right-hand margin indicate marks.

Section-A

- 1. Answer the following short answer questions:** **1x10=10**
- (a) What is data staring?
 - (b) Importance of graph.
 - (c) How dispersion of a data set is determined?
 - (d) What are registers of a computer?
 - (e) What is the use of silica gel in chiatomography?
 - (f) What is IMRAD system.
 - (g) Name one method of enzyme assay.
 - (h) What are the funding agencies?
 - (i) Define mode.
 - (j) What is Correlation?
- 2. Answer the following questions in brief:** **2x5=10**
- (a) What is the importance of WWW.
 - (b) Write short notes on BLAST.
 - (c) Define regression give example.
 - (d) What is the importance of exampling records?
 - (e) Define enzyme activity.

Section-B

15x4=60

Answer the following Long-Answer questions:

- 3. Describe in detail the presentation tools and their importance.**
OR
Describe in detail the biological data bases.
- 4. Describe in detail the probability distribution.**
OR
Describe in detail the use of statistics in biosciences give examples.
- 5. What should be the quality of a research paper for publication?**
OR
What are the different sections required to prepare one research paper? Explain in detail.
- 6. Describe in detail the determination of specific activity of enzyme.**
OR
Write short notes on:-
a). Immuno electrophoresis
b). Ultracentrifugation