This question paper contains **3** printed pages]

NB—25—2023

FACULTY OF SCIENCE

B.Sc. (Second Year) (Fourth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

(New Pattern)

BIOTECHNOLOGY

Paper DSE BT-4D-1

(Basics of Computer)

(Thursday, 7-12-2023)　　　　　　　　　　　　**Time : 2.00 p.m. to 5.00 p.m.**

Time—Three Hours　　　　　　　　　　　　　　　　*Maximum Marks—75*

N.B. :—　　(*i*)　*All* questions are compulsory.

　　　　　(*ii*)　Draw neat and well labelled diagrams if necessary.

1.　Write steps and then construct histogram with frequency polygon for the data given below :　　　　　　　　15

Class	:	10-20	20-30	30-40	40-50
Frequency	:	5	15	40	30

P.T.O.

Or

(a) How to calculate arithmetic mean for individual series, discrete frequency distribution and continuous frequency distribution data ?   8–

(b) Write definition, scope and applications of statistics.   7

2. Write definition and formula of standard deviation for individual series, discrete frequency distribution and continuous frequency distribution data. Add a note on merits and demerits of standard deviation.   15

Or

(a) Write definition, formula and examples of range.   8

(b) Write definition, formula and examples of coefficient of variation.   7

3. Explain in detail basic design and architecture of a computer.   15

Or

(a) Explain binary and decimal number systems.   8

(b) Explain features of Linux operating system.   7

4. Explain functions of different menus in MS PowerPoint.   15

Or

(a) Write applications of MS Excel.   8

(b) Explain the concept and applications of internet.   7

5.   Write short notes on (any *three*) :   3×5=15

    (*a*)   Search engines

    (*b*)   http

    (*c*)   Windows O.S.

    (*d*)   Variance

    (*e*)   Types of data.