I Semester Examination, April-2021

M.Sc.

BIOTECHNOLOGY

Paper III

(Computer Application and Biostatistics)

Time : 3 Hours]   [Maximum Marks : 80

Note : *All questions are compulsory. Question Paper comprises of 3 sections. **Section A** is objective type/Multiple Choice questions with no internal choice. **Section B** is short answer type with internal choice. **Section C** is long answer type with internal choice.*

SECTION 'A'

(Multiple Choice Questions)

Choose the correct answer :   **8 ×1 = 8**

1. .... is a light sensitive device that converts drawing, image or text into digital form.

   (a) Mouse   (b) Printer

   (c) Plotter   (d) Scanner

2. Which is not an input device ?

   (a) Mouse   (b) Keyboard

   (c) Printer   (d) Barcode scanner

3. The decimal equivalent of binary number "1010" is......

   (a) 2   (b) 4

   (c) 5   (d) 10

4. Which is a spreadsheet application program ?

   (a) MS Excel   (b) MS Powerpoint

   (c) MS word   (d) both (b) and (c)

5. The median of an ordered set of data is the value that represents :

(a) The mean of the squared deviation of values from the mean

(b) The arithmetic average of the data value

(c) The middle or approximate middle of the data set

(d) The most frequently observed value

6. A graph is a collection of ………

(a) Row and column   (b) Equations

(c) Vertices and edges (d) None

7. In the sum of all probabilities is equal to………

(a) 0   (b) 2

(c) 4   (d) 1

8. When the value of two variables move in the same direction, correlation is said to be………

(a) Linear   (b) Positive

(c) Non-linear   (d) Negative

SECTION 'B'   6 × 4 = 24
(Short Answer Type Questions)

Note : *Answer the following questions in 250 words.*

1. Describe system software with suitable examples.

Or

Write a short note on auxiliary storage system.

2. Describe the significant features of MS-word.

Or

Explain the loop control structure in brief.

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3. Write down the various rules for making diagram.

Or

Write a short note on positional mean.

4. Define probability along with formula and suitable example.

Or

Describe the uses of Regression.

SECTION 'C'   12 × 4 = 48
(Long Answer Type Questions)

Note : *Answer the following questions in 500 words.*

1. Discuss the working principle of printer and its types.

Or

Write a detailed note on output devices.

2. Define high-level language and describe the "C" language along with its advantages.

Or

What is MS office ? Discuss application programs it consists of.

3. Write a descriptive note on standard deviation.

Or

Expalin standard error and its significance.

4. Describe in detail the correlation along with its application.

Or

Describe the "t-test" and its significance along with suitable example.

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