

Roll No.

Total Pages : 3

1923/M

M-47/2051

COMPUTERS AND BIOSTATISTICS

Paper–XV

Semester–IV

Time allowed : 3 Hours] [Maximum Marks : 75

Note: Candidates are required to attempt two questions from each sections A and B carrying 15 marks each. Section C consisting of 10 short answer type questions carrying 1½ marks each.

SECTION-A

1. What are the various components of a computer system? Explain the role of each component. 15
2. Discuss the features of different types of processing systems. 15

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3. (a) Distinguish between Windows and Linux operating systems. 7½
- (b) What is the purpose of a search engine? Explain. 7½
4. Write short notes on the following : 3×5 = 15
- (a) Character set
- (b) Identifier
- (c) Keyword
- (d) break statement
- (e) continue statement.

SECTION-B

5. What are the applications of statistics in biological research? Explain. 15
6. What are the different measures of central tendencies? Explain the features of each measure. 15

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7. Find Karl Pearson's coefficient of correlation between the values of X and Y given below and calculate the probable error:

X	77	91	94	72	63	77	69	65
Y	126	136	158	114	103	142	127	111

8. Discuss in detail the five commonly used counting rules used in probability theory. 15

SECTION-C

9. Attempt all questions :

- (i) Distinguish between RAM and ROM.
- (ii) Name any three input and output devices each.
- (iii) Define operating system.
- (iv) Name any five network topologies.
- (v) Distinguish between internet and intranet.

- (vi) Distinguish between break and continue statements.
- (vii) Define skewness.
- (viii) What is the use of kurtosis?
- (ix) Define multiple regression.
- (x) Find the probability of selecting a black card or a 6 from a deck of 52 cards.

$$1\frac{1}{2} \times 10 = 15$$