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(20516)

Roll No.

B. Sc. (Micro.) II

3501

B. Sc. (Micro.) Examination, May 2016

Computer & Biostatistics

(B-208)

Time: Three Hours

[Maximum Marks: 35]

Note: Attempt any five questions. All questions carry equal marks. Calculator is allowed.

1. ✓ Explain different computer generations with suitable examples. 7
2. What is interpreter and how does it differ from compiler? 7
3. ✓ Explain primary and secondary storage device with examples. 7

(2)

4. (a) Explain the conversion of decimal number to hexadecimal number. 3
- (b) Convert the following:
 - (i) $(101101011)_2$ to $(\dots\dots\dots)_8$ 2
 - (ii) $(12351)_8$ to $(\dots\dots\dots)_2$ 2

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Calculate mean deviation and standard deviation from the following data: 3+4

Class	Frequency
0-10	6
10-20	10
20-30	16
30-40	14
40-50	10
50-60	5
60-70	2

6. What do you mean by systematic sampling? Give its advantages and disadvantages. 7

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(3)

7. Calculate Karl Pearson's correlation coefficient from the following data: 7

X	9	8	7	6	5	4	3	2	1
Y	15	16	14	13	11	12	10	8	9

8. What do you understand by consistency of data?

Obtain the consistency of the following data: 7

$$N = 1000, (A) = 600, (B) = 500, (AB) = 50.$$

9. Define Binomial distribution. Ten coins are thrown simultaneously. Find the probability of at least 9 heads. 3+4

10. Write short notes on any two of the following: 3½+3½

(i) *t*-test

(ii) Completely Randomized Design

(iii) Simple Random Sampling

(iv) Median.