

Subject Code:- R7203

R07

II B. Pharmacy I Semester Supplementary Examinations May - 2012
STATISTICAL METHODS AND COMPUTER APPLICATIONS

Time: 3 hours

Max. Marks: 80

Answer any FIVE Questions from the following

All Questions carry equal marks

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1. Describe, with suitable examples the following type of diagrams.
(i) Bar Diagram (ii) Deviation Bar Diagram (iii) Pie Diagram

- 2.(a) Find the mean values of two random variables x and y and the correlation coefficient between them when two lines of regression are given by
 $5x + 7y - 22 = 0$ and $6x + 2y - 20 = 0$
If the variance of y is 15, find the standard deviation of x .
(b) What are the two regression lines? When do we use one in preference to the other.

- 3.(a) A sample of size 400 was drawn and the sample mean was found to be 99. Test whether this sample could have come from a normal population with mean 100 and standard deviation 8 at 5% level of significance.
(b) What are the conditions for using Chi-Square test?

4. Four salesman were posted in different areas by a company. The number of units of commodity X sold by them are as follows:

A	20	23	28	29
B	25	32	30	21
C	23	28	35	18
D	15	21	19	25

On the basis of his information, can it be concluded that there is a significant difference in the performance of the four salesman? (Given for $\nu_1 = 3$ and $\nu_2 = 12$, $F_{0.05} = 3.24$)

- 5.(a) Briefly describe the block diagram of the computer.
(b) What is an operating system? Explain disk operating system?

- 6.(a) What is an algorithm? What are its properties?
(b) What are the advantages and disadvantages of DBMS?

- 7.(a) Differentiate sequential and random access files?
(b) Discuss any two repetitive statements?

8. Explain how computers are used in pharmaceutical industries?

