

**NKT/KS/17/6551**

**B.Pharm (Second Semester) (C.B.S.) Examination**  
**STATISTICS AND COMPUTER APPLICATION IN PHARMACY**

**Paper—6**

Time : Three Hours]

[Maximum Marks : 80

**N.B. :—** (1) Question No. 1 is compulsory.

(2) Solve any **four** questions from the remaining.

(3) Draw neat labeled diagram wherever necessary.

(4) Use of electronic calculator is permitted.

(5) Assume suitable data wherever necessary.

1. Solve any **five** of the following : 20

(a) Explain what do you mean by statistics and statistical data.

(b) What are regression lines ? State properties of regression lines.

(c) What is sampling of data ? Describe the sampling methods.

(d) Define a computer. State any four characteristics of a computer.

(e) Describe the classification of computer.

(f) Draw a block diagram of computer and computer architecture.

(g) What is meant by input device ? Describe any one input device briefly.

2. (a) Explain the technique of one way and two way ANOVA. 8

(b) What is internet ? Write application of internet. 7

3. From the following data calculate Mean, Mode and Median : 15

Class limit	10—30	30—60	60—90	90—120	120—150	150—180
Frequency	8	13	22	27	18	7

4. (a) Given the two lines of regression as

$$8X - 10Y + 66 = 0$$

$$\text{and } 40X - 18Y - 214 = 0$$

Find average of X and Y and correlation coefficient between X and Y. 8

(b) Describe in brief the evolution of computers. 7



5. (a) Explain different parts of C.P.U. 8  
(b) What is operating system ? Explain in detail the DOS operating system. 7
6. (a) What is correlation ? Describe the methods of studying correlation. 8  
(b) Calculate standard deviation and coefficient of variation from the following data : 7

<b>X</b>	4	8	12	16	20	24	28
<b>F</b>	3	13	22	37	18	12	2

7. Write short notes on any **two** of following :

- (a) E-Mail  
(b) LAN and WAN  
(c) PowerPoint  
(d) Memory.

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