

NRJ/KW/17/4266

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

**Paper—6**

Time : Three Hours]

[Maximum Marks : 80

- N.B. :—** (1) Question No. 1 is compulsory.  
 (2) Solve any **four** questions from remaining.  
 (3) Draw neat labeled diagram wherever necessary.  
 (4) Assume suitable data wherever necessary.  
 (5) Discuss the reaction mechanism wherever necessary.  
 (6) Use of electronic calculator is permitted.

 1. Solve any **five** of the following : 5×4=20

- Write characteristics of the computer.
- Explain different kinds of memories.
- What are functions of an operating system ?
- What do you mean by statistics and statistical data ?
- What are different methods of studying correlation ?
- What are the properties of regression coefficients and lines ?

 2. Obtain the Mean, Median and Mode from the following data : 15

Monthly rent (Rs.)	No. of Families
20—40	6
40—60	9
60—80	11
80—100	14
100—120	20
120—140	15
140—160	10
160—180	8
180—200	7

 3. Given the two linear regression equations  $X - 4Y = 5$  and  $X - 16Y = -64$ . Find the Means of X and Y, the correlation coefficient between X and Y. 15

 4. (a) Calculate standard deviation and coefficient of variation for the following grouped data : 10

Class limits	Frequency
0—50	7
50—100	16
100—150	23
150—200	14
200—250	8
250—300	2

 (b) What is the procedure of ANOVA ? 5

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| 5. | (a) | Describe in brief the evolution of Computers.                                   | 8 |
|    | (b) | Explain different parts of C.P.U.   | 7 |
| 6. | (a) | Enlist and elaborate on different input and output devices.                     | 8 |
|    | (b) | Write a note on LAN and WAN.  | 7 |
| 7. | (a) | Explain various Fields in Pharmacy where computers find potential applications. | 8 |
|    | (b) | Explain in detail the DOS operating system.                                     | 7 |

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