



(LG 4255)

FEBRUARY 2015

Sub Code: 4255

**B.PHARM. EXAMINATION  
FIRST YEAR****PAPER V – BIOSTATISTICS AND COMPUTER APPLICATIONS***Q.P. Code : 564255***Time: Three hours****Maximum: 100 marks****Answer Section A and B in SEPARATE Answer Book.****SECTION - A  
(BIOSTATISTICS)****I. Essay:****(1 x 20 = 20)**

1. Calculate the correlation coefficient from the following data.

X:	12	9	8	10	11	13	7
Y:	14	8	6	9	11	12	3

**II. Short notes:****(4 x 5 = 20)**

1. A bag contains 7 red balls and 5 white balls. FOUR balls are drawn at random. What is the probability that
  - a) All of them are red
  - b) Two of them are red and two white.
2. Calculate the standard deviation from the following data.  
14 22 9 15 20 17 12 11
3. 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 variance 64 at 5% level of significance.
4. Explain any two methods of sampling.

**III. Short answers:****(5 x 2 = 10)**

1. Chi square test
2. Histogram
3. Scatter diagram
4. Dispersion
5. Hypothesis

**SECTION - B  
(COMPUTER APPLICATIONS)****I. Essay:****(1 x 20 = 20)**

1. Explain all types of operators used in C program.

**II. Short notes:****(4 x 5 = 20)**

1. Write a note on algorithm and flowchart.
2. Explain the advantages of MS-OFFICE package.
3. Define network. Explain the types and uses.
4. Explain the various components of CPU.

**III. Short answers:****(5 x 2 = 10)**

1. Multimedia
2. URL
3. Program
4. Protocol
5. WAN

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