

(LK 4255)

FEBRUARY 2017

Sub Code: 4255

**FIRST YEAR B. PHARM. EXAMINATION**  
**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. Elaborate on:****(1 x 20 = 20)**

1. A problem in statistics is given to two students for solving. Probability that first student will solve the problem is  $\frac{2}{3}$  and probability that second student will solve the problem is  $\frac{3}{4}$ . Find the probability that:
  - i) Both the students will solve the problem.
  - ii) Both the students will not solve the problem.
  - iii) Problem will be solved.

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

1. What is scope of statistics in pharmaceutical research?
2. What is primary data? Discuss any two methods of collecting primary data pointing out merits and demerits.
3. Discuss about the null hypothesis and alternate hypothesis.
4. From the following data obtained the regression equation of X on Y.

X	16	20	17	21	15
Y	50	60	58	60	55

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

1. What is the meaning of Ogivegraph?
2. Chi square test.
3. Define dispersion.
4. Histogram.
5. Find mean, median and mode for the following observations 7, 12, 9, 15, 10, 12.

**SECTION - B**  
**(COMPUTER APPLICATION)**

**I. Elaborate on:****(1 x 20 = 20)**

1. Explain the various types of Networks and Topologies.

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

1. How computer assisted drug design?
2. Explain the characteristics of computer system.
3. Difference between primary memory and secondary memory.
4. Explain scanf ( ) and printf ( ) functions.

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

1. Define compiler.
2. Define CPOE.
3. Identifier.
4. Mail merge.
5. List out string functions in C.

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