

**FIRST B.PHARM. EXAM****Paper V – BIOSTATISTICS AND COMPUTER APPLICATION***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:****(1X20=20)**

1. The table given below shows the data obtained during an epidemic of cholera

	ATTACKED	NOT ATTACKED	TOTAL
INOCULATED	620	380	1000
NOT INOCULATED	550	450	1000
TOTAL	1170	830	2000

Test the effectiveness of inoculation in preventing the attack of cholera.

(Hint: The table value of  $\chi^2$  for 1 degree of freedom at 5% level of significance is 3.841)**II. Write notes on:****(4X5=20)**

1. Define primary data. Discuss any two methods of collecting primary data pointing out their merits and demerits.
2. Write short notes on a) Histogram b) Pie diagram
3. A bag contains 7 green, 5 white and 3 red balls. If 3 balls are drawn at random, determine the probability that (a) all 3 are white (b) at least 1 is green.
4. What is Lorenz Curve? How is it drawn? In what way does it help in studying variation of two or more distributions?

**III. Short Answers:****(5X2=10)**

1. Calculate Median and Mode for the following set of observations:  
11, 10, 12, 9, 12, 10, 14, 12, 9
2. Define regression.
3. Define Standard deviation.
4. Define Harmonic Mean.
5. Define Sampling and Non Sampling errors.

**SECTION - B  
(COMPUTER APPLICATION)****I. Elaborate on:****(1X20=20)**

1. Explain the various graphical input and output devices

**II. Write notes on:****(4X5=20)**

1. Explain the basic components of computer and their functions.
2. Write notes on Internet and its uses
3. Discuss any three pharmaceutical applications of compute
4. Explain arrays with its types

**III. Short Answers:****(5X2=10)**

1. List out the operating system functions
2. What are the differences between desktop computer and laptop computer?
3. What are C tokens?
4. How do you format text in MS Word
5. What are the differences between LCD monitor and CRT monitor