

**B. PHARM. DEGREE 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. Elaborate on:**

**(1 x 20 = 20)**

1. Calculate Spearman's rank correlation coefficient between the following marks given by two judges in the series of eight one act plays in a drama competition.

<b>Marks by Judge A</b>	81	72	60	33	29	11	56	42
<b>Marks by Judge B</b>	75	56	42	15	30	20	60	80

**II. Write notes on:**

**(4 x 5 = 20)**

1. What is primary Data? Discuss any two methods of collecting primary data Pointing out Merits and Demerits.
2. Discuss about the Null hypothesis and alternative hypothesis.
3. Calculate Median

Class	0-20	21-30	31-40	41-50	51-60
Frequency	42	36	120	84	48

4. What is the scope of statistics in Pharmaceutical Research?

**III. Short answers on:**

**(5 x 2 = 10)**

1. What is the meaning of Ogive graph?
2. Chi Square test.
3. Define Dispersion.
4. Histogram.
5. Hypothesis.

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

**I. Elaborate on:**

**(1 x 20 = 20)**

1. Describe about the infrastructure of a computer system and various types of input and output devices.

**II. Write notes on:**

**(4 x 5 = 20)**

1. Write short notes on MS-OFFICE package.
2. Discuss about memory of Computer system.
3. Define Network. Explain types of network.
4. Explain about any two types of decision making statements in C - Language.

**III. Short answers on:**

**(5 x 2 = 10)**

1. MS-DOS.
2. Open Source Software.
3. ATM.
4. TCP/IP.
5. Bluetooth.