

[LJ 822]

OCTOBER 2016

Sub. Code: 3822

**PHARM. 'D' AND PHARM. 'D' (POST BACCALAUREATE)
DEGREE EXAMINATION
(2009-2010 Regulation)
FOURTH YEAR
PAPER IV – BIOSTATISTICS AND RESEARCH METHODOLOGY**

*Q.P. Code: 383822***Time : Three hours****Maximum : 70 Marks****I. Elaborate on:****(4 x 10 = 40)**

1. What is Clinical Research? Design a protocol to conduct an efficacy studies for the new chemical entities in Phase II Clinical Trial.
2. How data can be represented Graphically? Explain different Graphical representation with suitable example.
3. Explain the inventory control methods in a Pharmacy and software available.
4. Explain the Data Collection Procedure. How data are statistically analysed by Mann Whitney U test?

II. Write notes on:**(6 x 5 = 30)**

1. What is Chi square test? How it is performed?
2. Explain power calculation to determine the sample size.
3. Write a note on regression method.
4. State the applications of SAS.
5. Write the procedure, merits and demerits of online prescription methods.
6. What are semi logarithmic plots? Give its application.
