

**II B.Pharmacy II Semester Supplementary Examinations, Jan/Feb 2015
BIOSTATISTICS**

Time: 3 hours

Max Marks: 75

**Answer any FIVE Questions
All Questions carry equal marks**

1. (a) What is S.E of a statistic? What does it measure?
(b) Explain briefly about Confidence Limits. [7+8]

2. Explain the following.
(a) Conditional Probability.
(b) Statistical independence of events.
(c) Pair-wise independent events.
(d) Mutual Independence of n-events. [4+4+4+3]

3. (a) Four coins are tossed 160 times. Fit Binomial distribution.
(b) Explain the concept of probability distribution. Point out the important properties of Normal Distribution. [7+8]

4. (a) Explain briefly about various types of correlation.
(b) What do you mean by regression coefficients. State and prove their properties. [7+8]

5. (a) Write the properties and applications of chi-square test?
(b) Write the procedure for testing of difference between variance of the population? [8+7]

6. (a) What are the assumptions of F –test? Write the applications of F-test in biological sciences
(b) what are the applications of ANOVA One way and Two-way in Pharmacy? [8+7]

7. (a) What do you understand by the control chart for fraction defective. Explain its construction?
(b) What is np-chart explain its applications? How do you construct explain with an example? [8+7]

8. (a) Explain why the number of treatments tested in a Latin square design should not be less than 3?
(b) what are chance causes and assignable causes? And also write the difference between chance causes and assignable causes? [5+10]
