M.Phonom.1st Sum (ASTU)-Reg. 29/11/14

Total No. of printed pages = 4

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M. Pharm 1st Semester End-Term Examination

PHARMACEUTICAL PROJECT
METHODOLOGY AND BIO-STATISTICS

Full Marks - 100 Rass Marks - 35 Time - Three hours

The figures in the margin indicate full marks for the questions.

Question Nos. 1 and 6 are compulsory.

Answer eight questions taking four from each section.

SECTION - A

1. Short questions:

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2×7=14

- (a) What is the purpose and objective of Research?
- (b) Why literature survey is essential in Research?

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- (c) What are the major sources used for literature survey?
- (d) Define the term Skewness and Kurtosis.
- (e) Differentiate between Survey and Experiment.
- (f) What are the techniques of documentation?
- (g) Explain the importance of documentation.
- 2. (a) Write a brief note on industry-institute interaction.
 - (b) What are the different parts of a Research paper? 7+5=12
- 3. (a) What do you mean by 'clinical trial'?

 Describe different phases of clinical trial.
 - (b) Explain the working schedule of Contract Research Organization while performing clinical trial. 6+6=12
- 4. Explain in detail the various methods of data collection. What are the characteristics and major phases involved in case study method. Write in brief the advantages of case study method.

5+4+3=12

5. What do you mean by Research? What is the purpose and types of Research? How to prepare a Research Proposal for historical research? Write in detail. 2+6+4=12

SECTION - B

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6. Short questions: 2×7=14

- (a) What do you mean by cost-benefit analysis?
- (b) What is regression coefficient?
- (c) Importance of I.I.P.C.
 - (d) What is standard deviation?
 - (e) Benefits of visual aid and poster presentation.
 - (f) Why references are given in the research thesis?
- (g) What do you mean by Keywords of a research paper writing?

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- 7. (a) Define mean, median and mode.
 - (b) Write in detail about Students' t-test ? $4\frac{1}{2} + 7\frac{1}{2} = 12$ M/Fata

- 8. Write notes on any two: $6\times 2=12$

- (i) Chi-square test.
- (ii) Analysis of variance (ANOVA).
 - (iii) Concept of probability distribution.
- 9. Discuss in brief the types of different skills possesses by a presenter to deliver an oral presentation. 12
- 10. (a) The following table gives the number of accidents that took place in Delhi Road during various days of the week.

Apply Chi-square test if the accidents are uniformly distributed over the week.

Days	Mon	Tues	Wed	Thr	Fri	Sat
No. of	in the	218	36 3	121	NA.	3)
accidents	12	14	16	10	18	11

(b) The scores of two batsman A and B in 10 matches are given below:

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 $A \rightarrow 38, 32, 40, 15, 35, 42, 48, 50, 30, 45$

 $B \rightarrow 30, 34, 10, 20, 36, 12, 15, 40, 45, 50$

Determine who is more consistent?

6+6=12