

FACULTY OF PHARMACY

M. Pharmacy (Common to All) III-Semester (PCI) (Suppl.) Examination,

August 2019

Subject : Research Methodology and Biostatistics

Time: 3 Hours

Max. Marks: 75

Note: Answer any Five Questions. All Questions Carry Equal Marks.

1. a) What is meant by 'literature search'? Explain the methods for attempting literature search.
b) List the crossover designs and their applications. (10+5)
2. a) Describe the analysis of variance, one-way and two-way classification with the examples. (15)
3. a) What are the benefits of an online business practices in medical field?
b) Write on truth-telling as a part of medical ethics. (10+5)
4. a) Explain the terms 'quarantine', 'stabilization' and 'separation' of laboratory animals.
b) Describe the goals and functions of CPCSEA. (10+5)
5. a) Explain the historical background of human subjects research.
b) What are the three principles of the Belmont report? (10+5)
6. a) Explain the procedures of hypothesis testing. What are Type 1 and Type 2 errors?
b) Explain the objectives of research with examples. (10+5)
7. a) What is the significance of p value? Describe the steps involved in interpretation of the p value.
b) What is the significance of 'informed consent' in clinical trials or human subjects research? Explain the elements of informed consent. (10+5)
8. a) Describe the record keeping and SOP's in animal house facility.
b) Discuss the values and medical ethics. (10+5)

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G.Pulla Reddy College of Pharmacy
Hyderabad

FACULTY OF PHARMACY

**M. Pharmacy (Common to All) III-Semester (PCI) (Main) Examination,
February 2019**

Subject : Research Methodology and Biostatistics

Time: 3 Hours

Max. Marks: 75

Note: Answer any Five Questions. All Questions Carry Equal Marks.

1. Explain the strategies to eliminate errors/bias and controls. (15)
2. a) What are meant by nonparametric tests? Distinguish between parametric and non-parametric tests.
b) Explain the factors influencing the sample size. (10+5)
3. a) What is the importance of communication systems in research and general life?
b) Differentiate the terms 'autonomy' and 'beneficence'. (10+5)
4. a) Describe the methods of surveillance, diagnosis, treatment and control of diseases in laboratory animals. (10)
b) What are the requirements for transport of laboratory animals by road, rail and air? (5)
5. a) Explain the steps involved in the ethical procedure for the international research.
b) List the principles of declaration of Helsinki (10+5)
6. a) Describe various statistical tests of significance relevant to the drug testing.
b) Define the term 'anesthetic' and its purpose. Explain the commonly used anesthetics in laboratory animals. (10+5)
7. Describe different types of 'study designs' with principles and advantages. (15)
8. a) Describe the problems in treatment of family members, during treatment by a known physician.
b) Describe the principles of medical research combined with medical care. (10+5)
