Eighth Semester B. Pharm Degree Regular Examinations May 2022
Biostatistics and Research Methodology
(2017 Scheme)

Time: 3 Hours　　　　　　　　　　　　　　　　　　**Max. Marks: 75**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw diagrams wherever necessary*

Essays　　　　　　　　　　　　　　　　　　　　　　**(2x10=20)**

1. Differentiate between parametric and nonparametric tests. Briefly explain any three parametric and non-parametric tests each used in hypothesis testing.
2. Describe various components of a thesis. Add a note on publication ethics.

Short Notes　　　　　　　　　　　　　　　　　　　　**(7x5=35)**

3. Define and detail the primary and secondary data with examples.
4. Write an ideal format for research protocol preparation.
5. Write the difference between references and bibliography.
6. Explain various study designs in epidemiology.
7. What are measures of central tendency. Explain how it is calculated.
8. Compare graphical representation of data with representation in table form.
9. Explain inferential statistics. Write note on different models.

Answer Briefly　　　　　　　　　　　　　　　　　　**(10x2=20)**
10. Define sample and population.
11. Define probability.
12. Define statistics.
13. Characteristics of good hypothesis.
14. Define analysis of variance.
15. Name some software used in bio statistics.
16. Write difference between research methods and methodology.
17. Define research gap.
18. Different types of sampling techniques.
19. What is type I and type II errors in research.

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