

QP Code: 821006

Reg. No.....

Eighth Semester B. Pharm Degree Supplementary Examinations

November 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. Discuss the significance of literature review. Elaborate the types of literature review.
2. What is hypothesis testing. What are the main points should be considered while formulating the hypothesis. Write the types of statistical hypothesis. Discuss the basic concepts concerning testing of hypothesis. (1+2+2+5)

Short Notes

(7x5=35)

3. Enumerate various types of research. Explain any two.
4. Describe the steps involved in construction of a questionnaire.
5. Explain the measures of error and bias.
6. What are the different sampling techniques. Describe any ONE technique.
7. Calculate median for the following data:

Class	0-10	11-20	21-30	31-40	41-50	51-60
Frequency	48	62	130	105	58	52

8. With suitable examples, explain various types of variables.
9. Name various softwares used in biostatistics. Explain the features of any one.

Answer Briefly

(10x2=20)

10. Mention any four unethical practices in research.
11. Give the advantages of observation method of data collection.
12. Explain primary data. Give its limitations.
13. Explain case study. Write its importance.
14. Write the measures of disease frequency.
15. Give the advantages of cohort study.
16. Write the types of descriptive studies.
17. Why sample size is important for the analysis.
18. What are the measures of central tendency.
19. Explain Type I error and Type II error.
