



DAO-M202116

Seat No. _____

Fourth Year D. Pharm. (Theory) Examination

April / May - 2022

Biostatistics & Research Methodology (4.4)

Time : Hours]

[Total Marks : 70

- Instruction :** (1) Figure to the right side indicate marks.
(2) Draw neat and clean diagram when required.

1 Answer all the following questions. **2×10=20**

- (1) Explain the term research with suitable example.
- (2) Enlist various types of clinical study designs.
- (3) What is biostatistics?
- (4) Discuss the central tendency with example.
- (5) Which tool is required to explain the data graphically?
- (6) Define p-value. Give its significance.
- (7) Give the difference between Incidence and Prevalence.
- (8) What are the advantages of computerized literature retrieval?
- (9) Explain the meaning of non parametric test.
- (10) Give the difference between sample and population.

2 Answer following questions. (ANY 2 out of 3) **10×2=20**

- (1) Explain in detail about measure of dispersion/spread with suitable examples.
- (2) What are data? Classify them. Explain in details about the construction and labelling of graphs.
- (3) Give the use of computer system in Hospital Pharmacy.

3 Answer following questions. (ANY 6 out of 8) **5×6=30**

- (1) Discuss on Spearman's correlation coefficient of correlation with suitable example.
- (2) Discuss in detail about Two way- ANOVA.
- (3) Enlist various Parametric tests. Write a note on Chi-Square-test.
- (4) Write the overview on hypothesis. Describe the basics of testing of hypothesis.
- (5) Describe the unpaired t-test with suitable example.
- (6) Write in detail about relative risk and attributable risk.
- (7) Explain the significance of coefficient of variation and standard error of mean.
- (8) Write the applications of computer in community pharmacy with special emphasize on computerizing the prescription dispensing process.
