M.Sc. Pharmacology 2nd Year
(BF/2023/12)
Research methodology and recent advances
MSCP-04/Paper IV

M.M.: 80   Time: 3 Hours

Note: 1.) *Attempt all questions.*
       2.) ATTEMPT BOTH PARTS IN SINGLE ANSWER BOOK ONLY.
       3.) NO SUPPLEMENTARY SHEET SHALL BE ALLOWED/ PROVIDED
       4.) *The Student must write Q.P. Code in the space provided on the Title page of the Answer Book.*

Section-A
Write about the following:

1. Latin-square design   [5]

2. Measures of dispersion   [5]

3. Recent advances in the treatment of Type-2 Diabetes mellitus   [5]

4. Various research tools for collecting research data   [5]

5. Precision index   [5]

6. Systematic error   [5]

7. Double-blinded studies   [5]

8. Differentiate numerical and categorical variables   [5]

Section-B
Write about the following:

1. Explain the significance of standard deviation   [5]

2. Standard error of mean   [5]

3. Commonly used statistical methods for assay validation   [5]

4. Basic types of regression analysis   [5]

5. Hypothesis testing and write different steps of hypothesis testing   [5]

6. Confidence interval   [5]

7. Fischer's exact test   [5]

8. Post hoc tests- Types and uses   [5]