

QP CODE: 114329

Reg. No:.....

**First Semester M.Pharm Degree Regular/Supplementary Examinations
April 2023**

M.Pharm (Pharmaceutical Analysis)

Paper IV - Food Analysis (MPA 104T)

(Common for 2017 and 2019 Scheme)

Time: 3 Hours

Total 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 table/diagrams/flow charts wherever necessary*

Essays

(3x10=30)

1. Give the classification, properties and application of food carbohydrates.
2. Describe the general method of analysis of amino acids and vitamins.
3. Give the effects of pest and insects on various foods. Add a note on use of pesticide in agriculture

Short Notes

(9x5=45)

4. How will determine the pesticide residue in grain.
5. Analysis of preservatives.
6. The occurrence and properties of permitted synthetic dyes.
7. Method of analysis for refining of fat and oils.
8. Discuss analytical method for cheese including adulterants.
9. The general analytical method for ice cream and butter.
10. Natural pigments.
11. The classification vitamins and amino acid.
12. Metabolism of carbohydrates and dietary fibre.
