

QP CODE: 114329

Reg. No:.....

**First Semester M.Pharm Degree Supplementary Examinations
February 2022**

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. Describe the general analytical methods for milk and any two milk products.
2. Describe the organophosphours and organochlorine pesticide analysis. Add note on pesticide cycle
3. Give the classification, chemistry and physico-chemical property of protein

Short Notes

(9x5=45)

4. Explain analysis of thickening and jelling agents.
5. How will determine adulteration in oils and fats.
6. What are the methods to detect permitted and natural dyes.
7. Discuss the methods used for measurement of spoilage of fats and fatty foods.
8. The legislation regulation of food product with special emphasis on BIS and Agmark.
9. The analysis of any two fermentation products.
10. Emphasize the principle of microbial assay of vitamin B series.
11. The changes of food carbohydrates during digestion.
12. Analysis for artificial sweeteners and flavours.
