First Semester M.Pharm Degree Regular/Supplementary Examinations

March 2020

M.Pharm (Pharmaceutical Analysis)

Paper IV - Food Analysis (MPA 104T)

# (Common for 2017 and 2019 Scheme)

### Time: 3 Hours

- 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

- 1. Discuss in detail about the types and selection of an ideal stabilizers used in food industries and write the determination of any two anti-oxidants
- 2. Elaborate the analytical method for the determination of adulterants and contaminant of milk in ice cream.
- 3. Describe in detail about the legislation regulation of food products with special emphasis on BIS.

#### Short Notes

- 4. Crude fibre and application of food carbohydrate
- 5. Explain the principle and procedure for the microbial assay of thiamine hydrochloride
- 6. Enlist the permitted and non-permitted synthetic dyes in food industry and write any one method for detection.
- 7. Outline the adulterants used in oils and explain its determination.
- 8. Analysis of vinegar
- 9. General method of analysis of amino acids
- 10. Summarize the various methods used for measurement of spoilage of fats and fatty foods
- 11. Enlist an artificial sweeteners and flavors used in food industries and mention any one method for determination.

12. Agmark.

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## QP CODE: 114329

(3x10=30)

#### (9x5=45)

Total Marks: 75

Reg. No:....