First Semester M.pharm Degree Examinations March 2019

M.Pharm (Pharmaceutical Analysis)

Paper IV - Food Analysis (MPA 104T)

Time: 3 Hours   **Total Marks: 75**

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays   **(3x10=30)**

1. Give an account of general analytical methods for milk. Describe the constituents, adulterants and contaminants of milk.

2. Classify proteins and discuss the principle and procedure involved in the estimation of protein by micro Kjeldahl method of analysis.

3. Explain the different types and characters of food colorants. Explain the method of detection of natural, permitted and non-permitted dyes in food.

Short Notes   **(9x5=45)**

4. Metabolism of proteins.

5. Classification of fats and oils.

6. Sap value and iodine value.

7. Artificial sweetener.

8. Crude fiber

9. Analysis of cheese.

10. Analysis of beer.

11. Analysis of organophosphorus pesticide.

12. Analysis of margarine

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