

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

MGU-UGP (HONOURS)

FIRST SEMESTER EXAMINATION

(2024 ADMISSION ONWARDS)

Model Question Paper

Course :24MG1DSCCHE100- Fundamentals of Chemistry-1

Time -2 hr.

Total marks: 35

Select one experiment each from part-1 to part-Iv

Part-I (3 marks)

1. Identify the given metal ion using flame test by comparison.
2. Identify the given metal ion using spot test by comparison

Part-II (3 marks)

3. Detect the presence of chlorine in tap water.
4. Draw the structure of the Given compound using Chem Draw/Chem sketch.

Part-III (6 marks)

5. Prepare 5- nitrosalicylic acid from salicylic acid and display it for evaluation.
6. Prepare P-nitroacetanilide from acetanilide and display it for evaluation.

Part-IV (3 marks)

7. Write the procedure of Spot test for Zn/Cu/Ni
8. Write the procedure of preparation of 5- nitrosalicylic acid from salicylic acid /P-nitro acetanilide from acetanilide.
9. Viva voce (10 marks)
10. Lab report (10 marks)

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Model Question Paper

Course :24MG1MDCCHE100- Food Chemistry and Nutrition

Time -2 hr.

Total marks: 35

Part A (10 marks)

Conduct one detection from each question

1. Detection of starch/urea in milk. (4 marks)
2. Detection of chalk/metanil yellow powder in turmeric powder. (3 marks)
3. Detection of sawdust/ brick powder/ artificial colour in chilli powder. (3 marks)

Part B

Write the procedure for one of the following experiments (5 marks)

4. Test the solubility of vegetable oil in three different solvents
5. Find out the moisture content of a given food sample by lab oven method

Part C

6. Viva voce based on practical topics (10 marks)
7. Lab Report* (10 marks)

*Minimum 6 experiments should be conducted and recorded in a systematic, scientific manner.