

**B. Sc. I YEAR (Maths
Practical exam (2020-2021)
Subject – Chemistry**

M.M.-50

| | | |
|-----------------|--|-----------|
| Object.1 | Identification of two acid and two basic radical in the given Inorganic mixture | 12 |
| Object.2 | Identification of functional group in the given organic compound | 08 |
| Object.3 | To determine the density and viscosity for the given solution | 14 |
| | or | |
| | To determine the density and surface tension for the given solution | |
| Object.4 | Viva | 10 |
| Object.5 | Sessional | 06 |

| Students | End of Roll No. | Object-1 | Object-2 | Object-3 | | | |
|----------|--|--|----------------------------------|----------------------------------|------------------------|-------------------------|-------------------------|
| | | | | Weight of empty Pycnometer | | Time for Water to Flow | Time for Liquid to Flow |
| Maths | 1,2 | Ba ²⁺ , Cl ⁻ Cu ²⁺ , SO ₄ ²⁻ | Carboxylic | Weight of empty Pycnometer | 14.9g | | |
| | | | | Weight of Pycnometer With water | 25.1g | 122sec | 126sec |
| | | | | Weight of Pycnometer With Liquid | 26.2g | 124sec | 125sec |
| | 3,4 | NH ₄ ⁺ ,NO ₃ ⁻ Fe ³⁺ , SO ₄ ²⁻ | Carbohydrate | Weight of empty Pycnometer | 12.8g | No. of water Drops | No. of liquid Drops |
| | | | | Weight of Pycnometer With water | 22.6g | 44 | 48 |
| | | | | Weight of Pycnometer With Liquid | 23.9g | 43 | 47 |
| | | | | | | 42 | 47 |
| | 5,6 | NH ₄ ⁺ ,SO ₄ ²⁻ Ca ²⁺ , Cl ⁻ | Amide | Weight of empty Pycnometer | 18.8g | Time for Water to Flow | Time for Liquid to Flow |
| | | | | Weight of Pycnometer With water | 29.6g | 92sec | 129sec |
| | | | | Weight of Pycnometer With Liquid | 31.1g | 91sec | 127sec |
| | | | | | | 91sec | 127sec |
| | 7,8 | NH ₄ ⁺ ,CO ₃ ²⁻ Ba ²⁺ , Cl ⁻ | Ketone | Weight of empty Pycnometer | 16.7g | No. of water Drops | No. of liquid Drops |
| | | | | Weight of Pycnometer With water | 31.2g | 32 | 46 |
| | | | | Weight of Pycnometer With Liquid | 32.8g | 31 | 43 |
| | | | | | | 31 | 43 |
| 9,0 | Pb ²⁺ , SO ₄ ²⁻ NH ₄ ⁺ , Cl ⁻ | Nitro-Compound | Weight of empty Pycnometer | 19.7g | Time for Water to Flow | Time for Liquid to Flow | |
| | | | Weight of Pycnometer With water | 38.8g | 88sec | 112sec | |
| | | | Weight of Pycnometer With Liquid | 39.6g | 85sec | 112sec | |
| | | | | | 85sec | 111sec | |