

B.Sc. First Semester Examination (ESE)-2024

(CCFUP : NEP)

[4 Years UG Programme]

CHEMISTRY

PAPER: UG/I/CHEM/4/MI-IP

[Basic Chemistry - I]

Full Marks: 20

Time: 03Hrs

The figures in the margin indicate full marks.

*Candidates are required to give their answers
in their own words as far as practicable.*

- 1. Perform any one of the following allotted experiments 15**
- a. i) Detection of **Special Element** (N, S, Cl, Br and I) in a supplied Unknown organic Compound. (Describe the steps taken in each test to detect N, S, Cl, Br and I in your sample. Record your observations and conclusions on the presence of these elements in the unknown organic compound).
- ii) Detect the melting point of supplied Unknown Organic compound.
- b. Estimate CO_3^{2-} (~ N/20) and HCO_3^- (~ N/20) concentration (gm./lit) in supplied mixture by acid-base titration method.

(2)

(include **Theory, Result Discussions, Calculation,** and
Conclusion in work report) 15

2. Viva-voce 3

3. Laboratory Note book 2
