

U.G. 1st Semester Examination - 2020

CHEMISTRY

[HONOURS]

Course Code : CHEM-H-CC-P-02

[PRACTICAL]

Full Marks : 20

Time : 2 Hours

The figures in the right-hand margin indicate marks.

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

Attempt any **five** from the following questions:

4×5=20

1. a) For a compound soluble in hot water precipitation from its alkaline solution by acidification needs thorough cooling. Why? 2
- b) Why careful acidification is needed to separate 4-aminobenzoic acid from its sodium hydroxide solution? 2
2. a) What is Denige's reagent? 2
- b) How can you be confirmed that the unknown white solid given to you is tartaric acid? 2

3. a) Write down the fluorescence test for identifying succinic acid. 2
- b) Identify the solid organic compound which gives fluorescence test positive and also give violet colouration when treated with freshly prepared ferric chloride solution. 2
4. a) What is Biuret reaction? 2
- b) Benzoic acid is weaker than salicylic acid. Explain. 2
5. a) Write down the structure of glucose. Why glucose gives positive test with Fehling solution where as sucrose does not? 2
- b) What is oil of wintergreen? Write down the chemical reaction for its formation. 2
6. a) What is Legal's Test? 2
- b) Why 1-Naphthol is not used for Diazo Coupling Reaction? 2
7. a) Ethanol exhibit positive iodoform test. Why? 2
- b) What is Brady's reagent? What happens when Brady's reagent is added to alcoholic solution of benzaldehyde? 2

[Turn over]