HIGHER SECONDARY EXAMINATION FEB/MARCH -2020

Subject: Chemistry - Practical

| IVRA. | xinium Score: 40 | ime: 3 hrs. |
|-------|---|-----------------|
| | Estimate the mass of in the whol solution. | e of the given |
| | You are provided with a standard solution of | |
| | containing Grams/litre | (Score -12) |
| 2. | Briefly write the principle and procedure for the a | bove estimation |
| | within first five minutes. | (Score -3) |
| 3. | Analyse the given salt, identify and confirm syste | matically the |
| | anion and cation present in it. | (Score Par |
| 4. | Analyse the given organic and the trible to the | a comining |
| | functional group present in it. | (Score -6) |
| a. | Viva voce | (Score -2) |
| | | |
| 5. | Practical record | (Score -4) |
| | | |

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Subject: Chemistry – Practical

Time: 3 Hrs.

| Maximum Score: 40 | Time: 3 Hrs. |
|--|-------------------|
| | |
| 1. Estimate the mass ofin the whole of the given so | olution. You |
| are provided with a standard solutioncontaininggrams/litre | (Score -12) |
| 2. Briefly write the principle and procedure for the above | ` . |
| within first five minutes. | (Score -3) |
| 3. Analyse the given salt, identify and confirm systematic | cally the |
| anion and cation present in it. | (Score -13) |
| 4. Analyse the given organic compound, identify and co | nfirm the |
| functional group present in it. | (Score -6) |
| 5. Viva voce | (Score -2) |
| 6. Practical record | (Score -4) |
| | |
| THE STATE OF A COLICAL C | DETAILS |
| EVALUATION OF CHEMISTRY PRACTICALS | <u> – DETAILS</u> |
| | • |
| Total Score | |
| 1. Practical Record | |
| a. Basic Laboratory techniques | -1/2 |
| | |
| b. Physical Chemistry Experiments (two |) -1/2 |

| c. Reactions of anion an cation | - 12 |
|---|-------------------|
| d. Salt analysis (6 Salts) | 1 |
| e. Identification of functional groups (I | Four) -1/2 |
| f. Volumetric analysis (Four) | -1 |
| 2. Viiva voce: informal simple questions to know the Chemistry practical. | e awareness on -2 |
| 3. Qualitative analysis | (Score -13) |
| a. Systematic Analysis of anion | |
| b. Identification test for anion | -3 |
| c. Conformation test for anion | 2 |
| d. Systematic Analysis of cation | 4 = 1 |
| e. Identification of group | -2 |
| f. Identification test for cation | -2. |
| g. Conformation test of cation | -2 |
| 4. Functional group analysis of organic compound | (Score -6) |
| a. Identification of functional group(One Test | |
| b. Conformation of functional group(One Test | |
| 5. Qualitative analysis (Single Titration –Score 12) | -3 |
| a. Tabulation and recording | • |
| (Acidimetric/Alkalimetery/Permanganon | metry) -2 |
| b. Calculation | |
| I.Normality of standard solution | -1 |

| I | .Normality of solution to be estimated | ≈ |
|----|--|----------------------------|
| IV | Correct equivalent masses. Correct calculation of the result with unit. i. Error within 2% (Full score) ii. Error up to 3% iii. Error above 3% | -1 -2 -5 -4 -3 |

6. Principal and procedure for quantitative analysis (Socialis)

a. For writing the chemical equation

b. Procedure

(Score A)

| | | 1/2 /2 |
|---|--|-----------|
| | Solution in pipette | 1/2 |
| Ī | Solution in burette | 1/4 |
| | Indicator used | 1/ |
| | Colour change | 1/2 |
| | Colour The Colour Colou | |

Note

- i. The procedure for qualitative analysis should be obtained in details
- ii. The student has to make up the solution for estimation
- iii. Normality or molarity may be used as the concentration for qualitative analysis.
- iv. Systematic analysis should be followed in salt analysis.
- v. At least four different types of question papers may be used.
- vi. Certified record should be produced.
- vii. Permanganometry should be given for at least one batch of students.
- viii. Random checking of burette readings may be done by the external examiners.
 - ix. Do analysis of organic compound given.