HIGHER SECONDARY EXAMINATION MARCH-2019 Subject: Chemistry – Practical

Maximum Score:40

Time :3 Hrs.

1. Estimate the mass of in the whole of the given solution. You are provided with a standard solution of containing...... grams/litre

(Score -12)

(Score -2)

(Score -4)

- 2. Briefly write the principle and procedure for the above estimation within first five minutes. (Score -3)
- 3. Analyse the given salt, identify and confirm systematically the anion and cation present in it. (Score -13)
- 4. Analyse the given organic compound, identify and confirm the functional group present in it. (Score -6)
- 5. Viva voce
- 6. Practical record

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EVALUATION OF CHEMISTRY PRACTICALS – DETAILS Total Score

1. Practic	al Record		
a. I	Basic Laboratory techniques		1/2
b. I	Physical Chemistry Experiments (two)		1/2
c. I	Reactions of anion and cation		1/2
d. \$	Salt analysis (4 Salts)		1
e. l	Identification of functional groups (Four)		1/2
f.	Volumetric analysis (Four)(one must be permanganometry)		-1
2. Viva v	oce: Informal simple questions to know the awareness		
On Chemistry practical.			
3. Qualita	tive analysis (Score 13)		
a.	Systematic Analysis of anion	-1	
b.	Identification test for anion	-3	
c.	Confirmation test for anion	-2	
d.	Systematic Analysis of cation	-1	
e.	Identification of group	-2	
f.	Identification test for cation	-2	
g.	Confirmation test of cation	-2	
4. Functi	onal group analysis of organic compound (Score -6)		
	Identification of functional group (One test)	-3	
b.	Confirmation of functional Group (One test)	-3	

Chemistry - 2/3

5. Quan	titative	analysi	is (single Titration- Score 12)		
a.	Tabulation and recording				
(Acidimetry/Alkalimetry/Permanganometry)				-2	
b.	Calcul	ation			
	i.	Norm	nality of standard solution	-1	
	ii.	Norn	nality of solution to be estimated	-1	
	iii.	Corre	ect equivalent masses.	-1	
	iv.	Corre	ect calculation of the result with unit.	-2	
		i.	Error within 2% (Full score)	-5	
		ii.	Error up to 3%	-4	
		iii.	Error above 3%	-3	
6. Princ	iple and	l proce	dure for quantitative analysis (Score-3)		
	a.	For wr	iting the chemical equation	-1	

b. Procedure (Score -2)

Solution in pipette	1/2
Solution in burette	1/2
Indicator used	1/2
Colour change	1/2

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.