

MODEL PAPER CHEMISTRY PRACTICAL

Intermediate Composite Examination, 2008 & Onward

Marks: 30

Time Allowed 3:00 Hours

Note: Write down principle, equation, procedure, and supposed calculations for question 2 and procedure for question 3 in first 20 minutes.

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|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Q.No.1. | Identify the given salt A by dry and wet tests. | 10 |
| Q.No.2. | The given solution contains 6 grams of impure sodium hydroxide dissolved per dm^3 of solution.
Find out percentage purity of the sample. | 10 |
| Q.No.3. | Prepare a pure sample of iodoform. | 5 |
| Q.No.4. | Practical Note Book | 2 |
| Q.No.5. | Viva Voce | 3 |

F.Sc. Chemistry Practical

Division of Marks

30 Marks

S.No	Experiment	Marks
1	Salt Analysis	10 Marks
2	Volumetric Analysis	10 Marks
3	Basic Techniques	5 Marks
4	Viva Voce	3 Marks
5	Note Book	2 Marks

Total = 30 Marks

Q.No.1.

Salt Analysis

- (a) Acid Radical =4 Marks
(b) Basic Radical =6 Marks
Total =10 Marks

Acid Radical

- (i) Dilute acid group = $\frac{1}{2}$ Mark
(ii) Concentrated acid group = $\frac{1}{2}$ Mark
(iii) Detection of acid radical =1 Mark
(iv) Two confirmatory tests = $1 \times 2 = 2$ Marks

Basic Radical

- (i) Any of two dry tests = $1 \times 2 = 2$ Marks
(Flame test, filter ash test, borax bead test & Charcoal cavity test)
(ii) Detection of Group =1 Mark
(iii) Detection of Radical =1 Mark
(iv) Two confirmatory tests = $1 \times 2 = 2$ Marks

Q.No.2.

Volumetric Analysis

- (a) First 20 minutes =5 Marks
(b) Performance =5 Marks

(a) First 20 minutes

- (i) Principle = $\frac{1}{2}$ Mark
(ii) Standard reagent = $\frac{1}{2}$ Mark
(iii) Indicator = $\frac{1}{2}$ Mark
(iv) End Point = $\frac{1}{2}$ Mark
(v) Chemical equation = $\frac{1}{2}$ Mark
(vi) Method =1 Mark
(vii) Supposed Calculations = $\frac{3}{2}$ Mark

Total 5 Marks

(b) Performance

- (i) Measuring with piette = $\frac{1}{2}$ Mark
(ii) Burette reading = $\frac{1}{2}$ Mark
(iii) Mean concord reading = $\frac{1}{2}$ Mark
(iv) Result =2 Mark

Total 5 Marks

Q.No.3.

Basic Techniques

(a) Preparations

- (i) Setting of apparatus =1 Mark
(ii) Performance =1 Mark
(iii) Result =1 Mark

- (b) **Chromatography**
- (i) Setting of apparatus =1 Mark
 - (ii) Performance =1 Mark
 - (iii) Result =1 Mark
- (c) **Purification**
- (i) Setting of apparatus =1 Mark
 - (ii) Performance =1 Mark
 - (iii) Result =1 Mark
- (d) **Detection of Elements**
- (i) Preparation of stock solution =1 Mark
 - (ii) Designated chemical tests =2 Mark
- (e) **Identification of functional group**
Three tests 1x3 = 3 Marks
- (f) **Heat of Neutralization**
- (i) Setting of apparatus =1 Mark
 - (ii) Performance =1 Mark
 - (iii) Result =1 Mark
- (g) **Goniometric Analysis**
- (i) Performance =1 Mark
 - (ii) Result = 2 Mark