

NAME:		ROLL NO:		TIME:	50: MIN
SUB:	Chemistry	Date:		CLASS:	1 st Year
SYLLABUS	Chp. 16 (Labs Safety and Practical Skills)	T. MARKS	30	OBT. M	

Q. 1 Choose the Correct Answer. Cutting, Erasing, Double Selection is Strictly Prohibited. (1x6=6)

- What color phenolphthalein turn in a basic solution:**
(A) Red (B) Blue (C) Pink (D) Colorless
- Which cation gives a white gelatinous precipitate upon the addition of aqueous ammonia?**
(A) Cr^{3+} (B) Cr^{2+} (C) Zn^{2+} (D) Al^{3+}
- Addition of NH_4OH to an aqueous solution of a cation gives a green precipitate which turns brown upon standing. Which basic radical is indicated?**
(A) Cu^{2+} (B) Cr^{3+} (C) Fe^{2+} (D) Fe^{3+}
- On dry heating test for salt analysis, the evolution of a colorless, of odorless gas that turns limewater milky suggests the presence of:**
(A) Chloride ion (Cl^-) (B) Sulfate ion (SO_4^{2-})
(C) Carbonate ion (CO_3^{2-}) (D) Nitrate ion (NO_3^-)
- The chromyl chloride test is a specific confirmatory test for:**
(A) Bromide ions (Br^-) (B) Iodide ions (I^-)
(C) Chloride ions (Cl^-) (D) Sulfate ions (SO_4^{2-})
- The brown ring test is a confirmatory test for which acid radical?**
(A) Chloride (Cl^-) (B) Nitrate (NO_3^-)
(C) Sulfate (SO_4^{2-}) (D) Carbonate (CO_3^{2-})

PART-I

Q. 2 Write Short Answers of the Following Questions (2x8=16)

- What are different types of burns?
- What is meant by concordant reading?
- What is ring test? Give equation for this test.
- If an aqueous solution of NaOH is kept in an open container, what changes do you expect to take place with the passage of time?
- What precautions you need to observe while diluting a concentrated acid?
- Why does an aqueous solution of Na_2CO_3 behave like base?
- Why Ca^{2+} does not give precipitate with aqueous ammonia?
- Explain why different indicators change colour over different pH ranges.

PART-II

Write Answers of the Following Questions in Detail.

Q. 3 (a) How the following acid radicals are indicated and confirmed in salt analysis:

- i) CO_3^{2-} ii) Cl^- iii) NO_3^- iv) SO_4^{2-} 4

(b) How the following basic radicals are indicated and confirmed in salt analysis:

- i) Cu^{2+} ii) Al^{3+} iii) Fe^{3+} iv) Zn^{2+} 4



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1ST YEAR REVISION & TEST SESSION



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Answer Key

1	C	2	D	3	C	4	C
5	C	6	B				