

RBSE Class 11 Chemistry Reduced Practical 2021



Board of Secondary Education Rajasthan, Ajmer Revised Syllabus for Examination 2021

Chemistry Practical Syllabus

Unit No.	Subject Topics	Marks
A	Basic Laboratory Techniques 1. Cutting glass tube and glass rod 2. Bending a glass tube 3. Drawing out a glass tube 4. Boring a cork	02
B	Characterization and Purification of Chemical Substances 1. Determination of melting point of an organic compound. 2. Determination of boiling point of an organic compound. 3. Crystallization of impure sample of any one of the following: Alum, Copper Sulphate, Benzoic Acid.	
C	Quantitative Estimation i. Using a mechanical balance/electronic balance. ii. Preparation of standard solution of Oxalic acid. iii. Determination of strength of a given solution of Sodium hydroxide by titrating it against standard solution of Oxalic acid. iv. Preparation of standard solution of Sodium carbonate. v. Determination of strength of a given solution of hydrochloric acid by titrating it against standard Sodium carbonate solution.	06
D	Qualitative Analysis Determination of one anion and one cation in a given salt Cations- Pb^{2+} , Cu^{2+} , As^{3+} , Al^{3+} , Fe^{3+} , Mn^{2+} , Ni^{2+} , Zn^{2+} , Co^{2+} , Ca^{2+} , Sr^{2+} , Ba^{2+} , Mg^{2+} , NH_4^+ Anions – $(\text{CO}_3)^{2-}$, S^{2-} , SO_3^{2-} , SO_4^{2-} , NO_2^- , NO_3^- , Cl^- , Br^- , I^- , CH_3COO^- (Note: Insoluble salts excluded)	06
E	Element Detection Detection of Nitrogen in an organic compound.	03
F	PROJECTS Scientific investigations involving laboratory testing and collecting information from other sources. A few suggested Projects	05

	<ul style="list-style-type: none"> • Checking the bacterial contamination in drinking water by testing sulphide ion • Study of the methods of purification of water • Testing the hardness, presence of Iron, Fluoride, Chloride, etc., depending upon the regional variation in drinking water and study of causes of presence of these ions above permissible limit (if any). • Investigation of the foaming capacity of different washing soaps and the effect of addition of Sodium carbonate on it • Study the acidity of different samples of tea leaves. • Determination of the rate of evaporation of different liquids • Study the effect of acids and bases on the tensile strength of fibers. • Study of acidity of fruit and vegetable juices. <p>Note: Any other investigatory project, which involves about 10 periods of work, can be chosen with the approval of the teacher.</p>	
	Record	04
	Viva	04
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