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Discuss the effect of dilution i Define battery. Differentiate between primary and secondary cells. Write about concentration cells 5. What is cathodic protection? Explain sacrificial anode and impressed current cathodic protection 6 a Differentiate between galvanising and tinning b Paints and its constituents 7. Write about factors affecting rate of corrosion Coatings by hot dipping Write a note on hydrogen-oxygen fuel cell and methanol-oxygen fuel cell. Write about electro plating of copper and electroless plating of Nickel Differentiate between galvanic series and electro chemical series. Explain a method of compounding and fabrication of plastics. Why is it processed? Explain the process of vulcanization. Explain the role of poly acetylene as conducting polymers. What are bio-degradable polymers? Explain the preparation and applications of Poly vinyl acetate and poly Lactic acid. Discuss the mechanism of lubrication. What are the criteria of good refractories? Explain sol-gel method of preparation of nano materials. Give various units of hardness b Explain ion- exchange method Write notes on all the boiler trouble Write a note on i reverse osmosis ii Electro dialysis a Explain Zeolite process b EDTA method of estimation of hardness c Numerical on temporary, permanent and total hardness Write a note on Phosphate, colloidal and Calgon conditioning of water. What are specifications of potable water? Write the steps involved in treatment of potable water.

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B. Find out the total hardness of water in ppm units, giving temporary and permanent hardness assuming the atomic mass of Fe to be 56, that of Ca to be 40, that of Mg to be 24 and that of Na to be What are the Constituents of petroleum? Describe the Origin of petroleum. Give an account of production of petrol from crude oil. A producer gas has the following composition by volume. Calculate the quantity of air re-quired per m<sup>3</sup> of gas. Give one example for each class. Write a note on the conditions leading to failure of a refractory material. Write a note on lubricants with special reference to their classification, mode of action, examples and applications. What are the draw backs of raw rubber? How are its properties improved? How is Buna "S" Rubber prepared? What is alkalinity of water due to and how it is estimated? Calculate the quantities in Kgs of lime and soda required to soften 50, litres of hard water containing the following salts: How it is formed? Discuss the qualities of a good coal. Give the Classification of coal and explain each class with example. With a neat diagram describe the orsat gas analysis method. What are the special precaution to be taken in the measurement? Define calorific values of a fuel. Distinguish gross and net calorific value. Explain Thermal spalling, strength and porosity of the refractories. Explain the following two theories for the mechanism of the lubricants.

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*(c) Define wave number. What are its units? ~8) (a) What are the advantages of taking of NMR spectrum at more than one radiofrequency? (b) Write brief notes on.*

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