



18. Explain the following name reactions

- (i) Sandmeyer reaction                      (ii) Gatterman reaction

**SECTION-C**

**III. LAQ: Answer any TWO of the following questions.**

**2 x 8 = 16 M**

19. a) State and explain Kohlrausch's law of independent migration of ions.

b) The conductivity of 0.2M solution of KCl at 298K is  $0.0248 \text{ scm}^{-1}$ . Calculate the molar conductance.

20. a) Explain the structure of (a)  $\text{XeF}_2$  and (b)  $\text{XeF}_4$ .

b) How is  $\text{O}_3$  prepared from oxygen? Explain its reactions with

a)  $\text{C}_2\text{H}_4$

b) Hg

21. Write the following named reaction with one example.

(a) Williamson synthesis

(b) Reimer - Tiemann reaction

(c) Cannizzaro reaction

(d) Decarbonylation reaction.