Q.P. Code :24698



b) Find the value of R_L to be connected across AB to get maximum power delivered to it

2A

23л

(10)



21

\$5n

- Q.3 a) Define and with suitable example differentiate between
 - i) Planar and non planar graph
 - ii) Tree and co-tree
- **Q.3 b)** Obtain incidence matrix, tie set and f-cutset matrix for following graph.



Q.4 a) In a given network, the switch k is moved from a to b at t=0 find i(t)



b) For the given network determine voltage ratio V_2/V_1



Q.5 a) Obtain h-parameters for the following circuit

b) If two networks are connected in cascade, find the transmission parameters of equivalent network. (10)

Q.6 a) Realize foster (I & II) forms of the following
$$z(s) = \frac{3(s+1)(s+4)}{s(s+3)}$$
 (10)

b) Realize cauer (I & II) forms of the following impedance function $z(s) = \frac{s(s^2+2)}{(s^2+1)(s^2+3)}$ (10)

(06)

(14)

(10)

(10)

(10)