CS-106
Mid-Semester Examination-I (Nov2024)
B.Tech. I Semester (CSE)
Electrical and Electronics Engineering

Duration: 1hr 30min   **Max. Marks: 20**

Note: Attempt all questions.

Q1.a) Define the following terms i)Active Element   ii)Passive Element
iii)Independent Sources iv)Node v)Mesh   [CO-1/5Marks]

OR

b) Using nodal analysis find the current flowing through 5 ohm
resistance in fig.1.2   [CO-1/5 Marks]
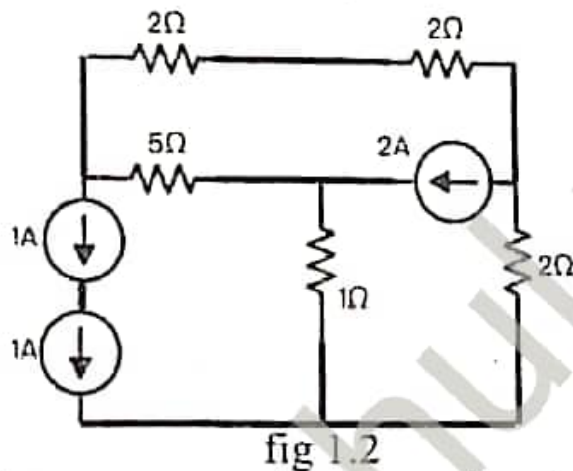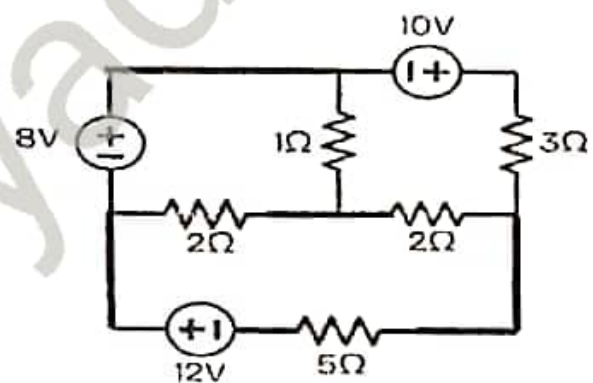

fig 1.2   fig.2.1

Q2.a) Determine the current flowing in all resistances of the circuit shown in
fig 2.1 using mesh analysis only   [CO-1/5 Marks]

OR

b) In fig. 2.2 determine the current flowing through R_L when the value of
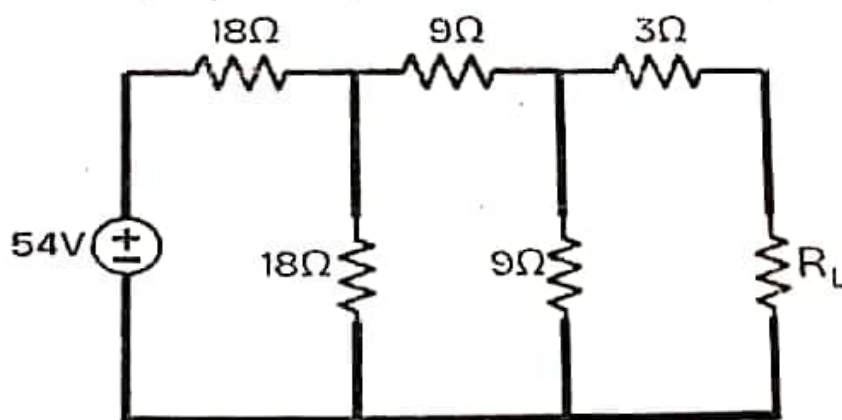load resistance R_L is i) 3 ohm, ii) 6 ohm & iii) 9 ohm [CO-1/5 Marks]

fig. 2.2

[1]

[P.T.O]