

Answer ALL Questions

1- For the circuit shown in Fig. 1, find the equivalent resistance seen by the source. Then find  $i$  and the power absorbed by the 12 ohm resistor. (5marks)

2- For the circuit shown in Fig. 2, find  $i$ . (5marks)

3- For the circuit shown in Fig. 3, find  $v$  using short cut method for mesh analysis. (5marks)

4- For the circuit shown in Fig. 4, find  $v_3$  in terms of  $v_1$ ,  $v_2$ ,  $R_1$ ,  $R_2$ , and  $R_o$ . What do you call this circuit. (5marks)

