

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2026

B.Tech-I Semester (BT)

COURSE CODE (CREDITS): 25B11EC112 (4)

MAX. MARKS: 15

COURSE NAME: BASIC ELECTRONICS FOR LIFE SCIENCES

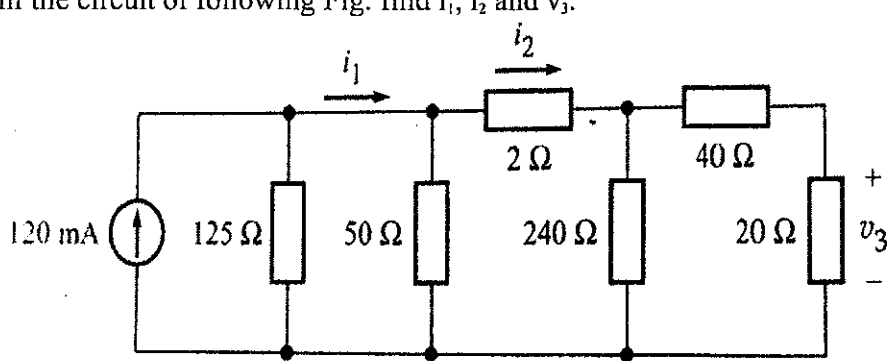
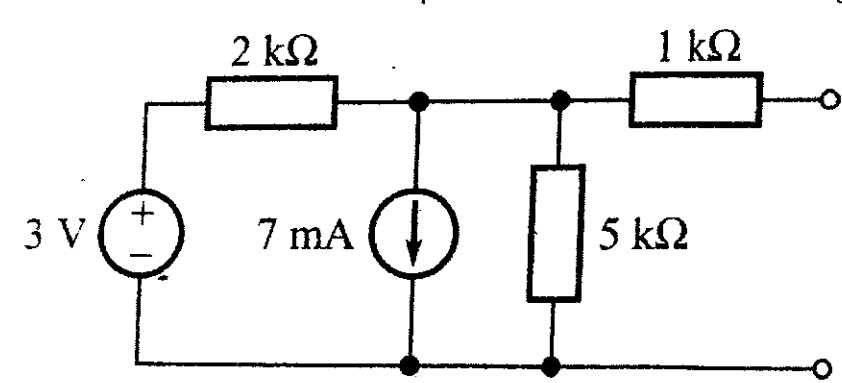
COURSE INSTRUCTOR: Er. MUNISH SOOD

MAX. TIME: 1 Hour

**Note:** (a) All questions are compulsory.

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

(c) Use of calculator is allowed

| Q.N<br>o | Question                                                                                                                                                                                  | CO | Marks |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------|
| Q1       | <p>In the circuit of following Fig. find <math>i_1</math>, <math>i_2</math> and <math>v_3</math>.</p>  | 1  | 4     |
| Q2       | <p>Find the Thevenin and Norton's equivalent of the circuit shown in Fig.</p>                         | 1  | 7     |
|          |                                                                                                                                                                                           | 1  | 4     |

Q3

Find the voltage drop across  $3\ \Omega$  resistor using mesh analysis.