## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

Make-up Examination-Nov-2025

COURSE CODE (CREDITS): 25B11EC112(4)

MAX. MARKS: 25

COURSE NAME: Basic Electronics for Life Sciences

COURSE INSTRUCTORS: Er. Munish Sood

MAX. TIME: 1 Hour 30 Minutes

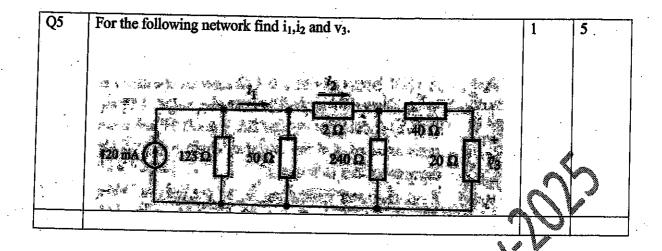
Note: (a) All questions are compulsory.

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

for solving problems

(c ) Scientific Calculators are allowed.		
Ouestion	<i>C</i> 0.	<u>Marks</u>
Determine I, $V_1$ , $V_2$ and $V_0$ for the following network. $+ V_1 - R_1 - R_2$ $= 10 \text{ Vo} \qquad \qquad$		75
$E_2 = -5 \text{ V}$ Determine $V_O$ , $I_1$ , $I_{D1}$ , $I_{D2}$ for the following network, $I_1 = 0.33 \text{ k}\Omega$	2	5
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
Determine $V_0$ for the network.	3	5
Determine VO for the following network.	3	5
	Determine I, V <sub>1</sub> , V <sub>2</sub> and V <sub>0</sub> for the following network. $+V_1 - R_1$ $E_1 = 10 \text{ V} - 4.7 \text{ kΩ}$ Si $I_1 = 10 \text{ V} - 4.7 \text{ kΩ}$ Si $I_2 = -5 \text{ V}$ Determine V <sub>0</sub> , I <sub>1</sub> , I <sub>D1</sub> , I <sub>D2</sub> for the following network. $I_1 = 0.33 \text{ kΩ}$ $I_2 = 10 \text{ V}$ $I_3 = 10 \text{ V}$ $I_4 = 10 \text{ V}$	Determine I, $V_1$ , $V_2$ and $V_0$ for the following network. $V_1 = V_1 = V_2 = V_1$ $E_1 = 10 \text{ V} = V_2$ $E_2 = -5 \text{ V}$ Determine $V_0$ , $I_1$ , $I_{D1}$ , $I_{D2}$ for the following network. $I_1 = 0.33 \text{ k}\Omega$ $I_2 = 0.33 \text{ k}\Omega$ $I_3 = 0.33 \text{ k}\Omega$ $I_4 = 0.33 \text{ k}\Omega$ $I_4 = 0.33 \text{ k}\Omega$ $I_4 = 0.33 \text{ k}\Omega$ Determine $V_0$ for the network. $I_4 = 0.33 \text{ k}\Omega$ $I_$

Page 1 of 1



III Make up Examination Novi