15/1.30

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- 2025

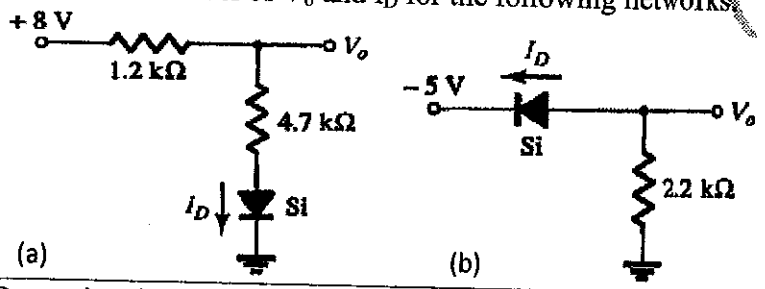
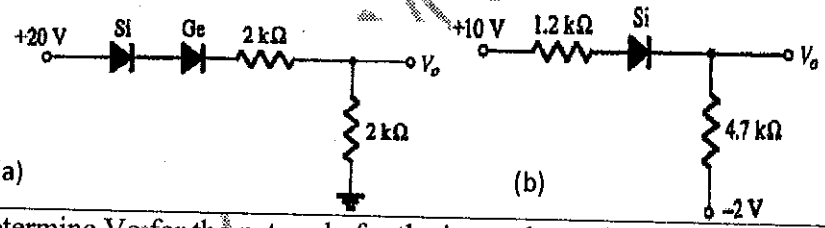
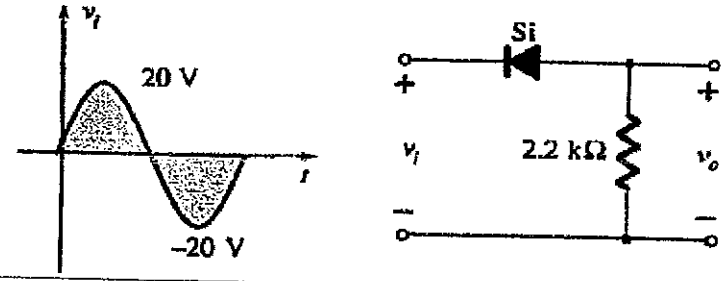
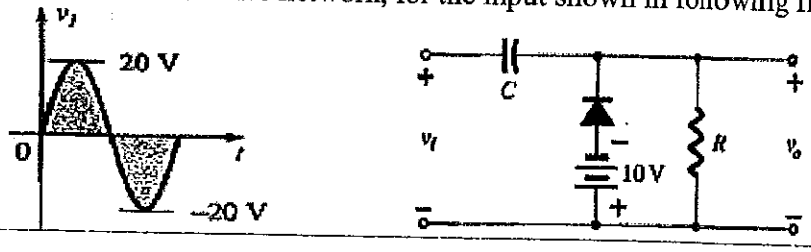
B.Tech-I Semester (BT/BI)

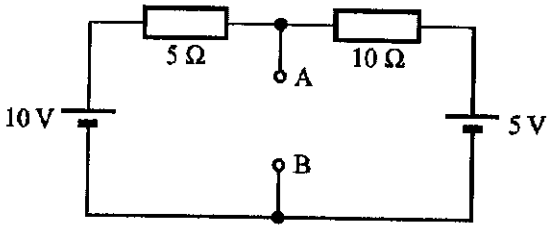
COURSE CODE (CREDITS): 25B11EC112 MAX. MARKS: 25

COURSE NAME: BASIC ELECTRONICS FOR LIFE SCIENCES

COURSE INSTRUCTORS: Er. Munish Sood MAX. TIME: 1 Hour 30 Min

Note: *(a) All questions are compulsory.*
(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems.
(c) Scientific calculator is allowed.

Q.No	Question	CO	Marks
Q1	Determine the level of V_o and I_D for the following networks. 	2	4
Q2	Determine the level of V_o for the networks. 	2	4
Q3)	Determine Vo for the network, for the input shown in following figure. 	3	4
Q4)	Determine Vo for the network, for the input shown in following figure. 	3	4

Q5)	Obtain the Norton's equivalent circuit with respect to the terminals AB for the network shown, and hence determine the value of the current that would flow through a load resistor of 5 Ω if it were connected across terminals AB.  	1	5
Q6)	a) Illustrate two applications of the transistor? b) What are three modes of operation of the BJT? c) What are the two types of transistor? d) Name the three terminals of a transistor?	2	4