## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -1EXAMINATION- 2025

B.Tech-I Semester (CSE (all branches)/IT/ECE/ECS/EEVLSI/CE)

COURSE CODE (CREDITS): 25B11EC111

MAX. MARKS: 15

COURSE NAME: BASIC ELECTRONICS

COURSE INSTRUCTORS: Prof. Rajiv Kumar, Prof. Shruti Jain, Dr. Harsh Sohal, Dr. Shweta

Pandit, Dr. Salman Raju, Dr. Nishant Jain, Dr. Alok Kumar, Lt. Pragya Gupta.

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.

Q.N	Question	CO	Marks
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Q1	i. Determine the current $i$ in the circuit of Fig 1 [2]  47 $\Omega$ 5 $V$ Fig 1  ii. For the single-node-pair circuit of Fig. 2, find $i_A$ , $i_B$ , and $i_C$ . [3]  5.6 A $V$ 18 $\Omega$ 0.1 $V_2$ 9 $\Omega$	1	5
	Fig 2		
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14	i. With the help of nodal analysis, determine the voltage difference $v_1 - v_2$ in the circuit shown in Fig 3. [2]		5

