Sunil Dutt Sharma

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

T-1 EXAMINATION) - Feb-2020

B. Tech. II Semester, BI/BT

COURSE CODE: 18B11EC212   MAX. MARKS: 15

COURSE NAME: Basic Electrical Sciences

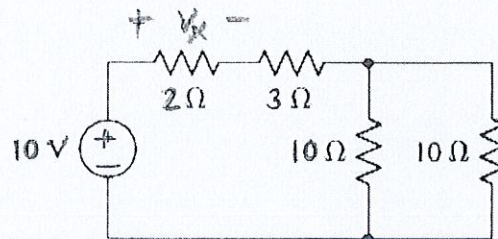COURSE CREDITS: 04   MAX. TIME: 1 Hrs

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Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

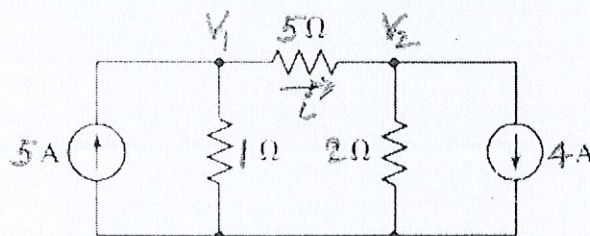
Q.1 (a) Find the v_x in the circuit given below: **[(03), CO-1]**

(b) Write the statement of KCL and KVL.   **[(02), CO-1]**

Q.2   Using the nodal analysis, determine the current i through the 5-Ω resistor.   **[(05), CO-1]**

Q.3 Using super position theorem, find the current i_x in the circuit given below: **[(05), CO-1]**