Candidate seat No:	
--------------------	--

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

B. Tech. (CE/CS/IT/EC) Sem-I Theory Examination (February 2022)

Course: EE 145 Basics of Electronics & Electrical Engineering Maximum Marks: 70

Date: 16/02/2022 (Wednesday)

Time: 10:00 a.m. to 01:00 p.m.

Instructions:

- (i) Attempt *all* the questions.
- (ii) Figures to the right indicate *full* marks.
- (iii) Make suitable assumptions and draw neat figures wherever if required.
- (iv) Paper Uploading Time- 40 Minutes Extra for uploading the paper

Q-2	Answer the Following Questions. (Any Five)	[25]
A	A copper coil has a resistance of 25 ohm at 31 degree Celsius and 37 ohms at 55 degree	
	Celsius, calculate:-	
	1). Temperature co-efficient of resistance at 0 degree Celsius	
	2). Resistance of coil at 0 degree Celsius	
	3). Temperature co-efficient of resistance at 85 degree Celsius	
	4). Resistance of coil at 60 degree Celsius	
В	Determine the mesh currents I1, I2 and I3 for the network shown in fig a . by using KVL.	
В	Determine the mesh currents 11, 12 and 13 for the network shown in ng a . by using RVL .	
	# 13V	
	fig a.	




