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Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

Online End Semester Examination, Dec 2020

Course: Electrical circuit analysis

Program: B. Tech. Electrical

Course Code: EPEG 2009

Semester: VII Time 03 hrs.

Max. Marks: 100

SECTION A

- 1. Each Question will carry 5 Marks
- 2. Instruction: Complete the statement / Select the correct answer(s)

		CO
Q 1	The product of apparent power and cosine of the phase angle between circuit voltage and current is	CO1
	(A) True power	
	(B) Reactive power	
	(C) Volt-amperes	
	(D) Instantaneous power	
Q2	Time constant of a capacitive circuit	
	(A) Increases with the decrease of capacitance and decrease of resistance	
	(B) Increases with the decrease of capacitance and increase of resistance	CO ₂
	(C) Increases with the increase of capacitance and decrease of resistance	
	(D) Increase with increase of capacitance and increase of resistance	
Q3	In each of the three coils of a three phase generator, an alternating voltage having an r.m.s. value of 220 V is induced. Which of the following values is indicated by the voltmeters? (A) 220 V	CO3
	$(B) 220 \sqrt{3} V$	
	$(C) 220/\sqrt{3} V$	
	(D) None of the above	
Q4	A junction where two (or) more than two network elements meet is known as a	
		CO1
Q5	By using source transformation voltage source in series resistor is replaced by	
		CO1
Q6	is the expression for the thevenin's current if there is an external resistance in series	
	with the R _{Th} ?	CO1
	SECTION B	

2. Instruction: Write short / brief notes



