FY_EEEE_Theory_IA2_Quiz

Total points 13/20 ?

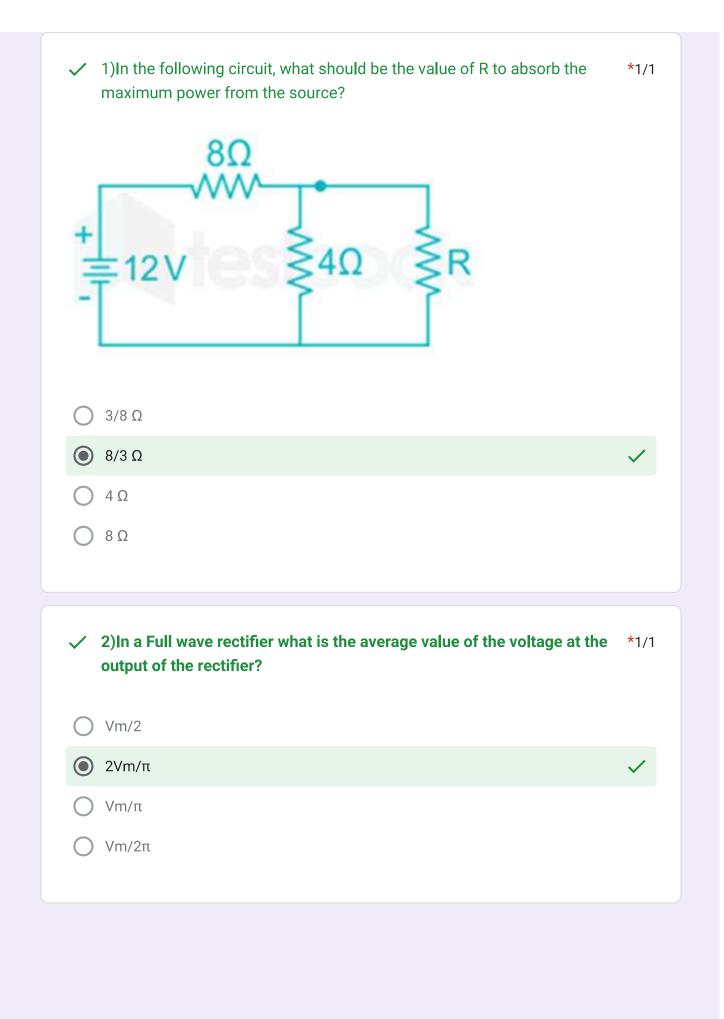




FY BTech_EEEE_Theory_IA2_Quiz

The respondent's email (rajat.kumar@somaiya.edu) was recorded on submission of this

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Rajat Kumar
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O C1
O C2
○ C3
O C4
○ C6



	l be	
Zer		~
O Ma	aximum	
O Mii	nimum	
O No	ormal	
× 6) I	In a half wave rectifier, the diode conducts for *	0/1
• На	alf cycle	0/1
HaNo	alf cycle one of these	
HaNoFull	alf cycle one of these II cycle	
HaNoFull	alf cycle one of these	
HaNoFull	alf cycle one of these II cycle ternate Half cycle	
Ha No Ful Alt	alf cycle one of these II cycle ternate Half cycle	

×	7) The reverse current effect damages the junction in diode	*0/1
•	Zener diode	X
0	None of these	
0	LED	
0	PN Junction diode	
Corre	ect answer	
•	PN Junction diode	
×	8) breakdown voltage is directly proportional to the temperature *	0/1
0	None of the above	
•	None of the above Zener	×
•••		×
0	Zener	×
0	Zener Both above	×
0	Zener Both above Avalanche	×
Corre	Zener Both above Avalanche ect answer	×
Corre	Zener Both above Avalanche ect answer Avalanche	1/1
Corre	Zener Both above Avalanche ect answer Avalanche	
Corre	Zener Both above Avalanche ect answer Avalanche 9) An ideal diode in forward bias have resistance *	
Corre	Zener Both above Avalanche ect answer Avalanche 9) An ideal diode in forward bias have resistance * None of the above	

✓ 10) The half-wave rectifier output DC voltage calculated by	_* 1/1
O Vpeak/2π	
O 2Vpeak/π	
Vpeak/4π	
Vpeak/π	~
\checkmark 11) Three similar coils each of resistance 20 Ω and inductance of 0.5 H are connected in star to a three phase 50 Hz, 400 V supply then what is the value of phase voltage	
○ 400 V	
② 230.94 V	✓
O 692 V	
○ 440 V	

	12) In the measurement of 3-phase power using two wattmeter method, the value of phase angle when the two wattmeter reads equal reading is	*0/1
	90	×
	60 45	
	0 ct answer	
()		
✓ 1	13) In NPN BJT transistor which of the following terminal defines P-type	*1/1
	13) In NPN BJT transistor which of the following terminal defines P-type Collector	* 1/1
0		*1/1
	Collector	*1/1
	Collector Base	* 1/1
•••	Collector Base Gate	*1/1

14) The Norton's equivalent impedance (ZN) in the circuit shown below is: *1/1
5) v \$22 b
(Z1+Z2)/Z1
○ Z1+Z2
(Z1+Z2)/Z2
Other:
X 15) If the resistance of the load is double the resistance of the source in *0/1 a circuit, the power transferred to the load is
a circuit, the power transferred to the load is
a circuit, the power transferred to the load is Double the maximum power
a circuit, the power transferred to the load is Double the maximum power One fourth of the maximum power
a circuit, the power transferred to the load is Double the maximum power One fourth of the maximum power Equal to the maximum power
a circuit, the power transferred to the load is Double the maximum power One fourth of the maximum power Equal to the maximum power Half of the maximum power

\	16) The Maximum Power Transfer Theorem is based on the concept of	*1 /1
•	Thevenin's Theorem	✓
0	Kirchoff's Law	
0	Ohm's Law	
0	Superposition Theorem	
~	17) The efficiency and ripple factor of center tap full wave rectifier is	*1/1
0	28.7% and 1.21	
0	69.3% and 0.48	
•	81.2% and 0.48	✓
0	40.6% and 1.21	
~	18) In the P-N junction at thermal equilibrium, the space charge region is a zone with a net charge provided by	*1/1
0	Minority charge carriers	
0	both majority and minority charge carriers	
0	Majority charge carriers	
•	Immobile ions	✓

✓ 19)W	Which of the following BJT terminal controls the current flow *	1/1
Base	e	✓
O Drain	n	
O Colle	ector	
○ Emit	tter	
× 20) I	In which of the following region do BJT operates in forward bias? *	0/1
× 20) I		0/1
	ve	
Activ	ve	
Activ Cut-c	ve off	
Cut-c	ve off a and c tration	0/1 ×
Active Cut-compared Saturation	ve off a and c tration	

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