



Electronic Circuits – Assignment 03

Diode Applications I

#	Student ID	Student Name	Grade (10)
-			

 ١. يتم تسليم التمرين محلولا في خلال أسبوع من تاريخ التمرين، و يتم حذف در جتين من التمرين عن كل أسبوع تأخير

٢. يتم التسليم لمعيد المقرر مباشرة

٣. تتم أجابه التمرين في نفس ورق الأسئلة



كلبة المزدسة

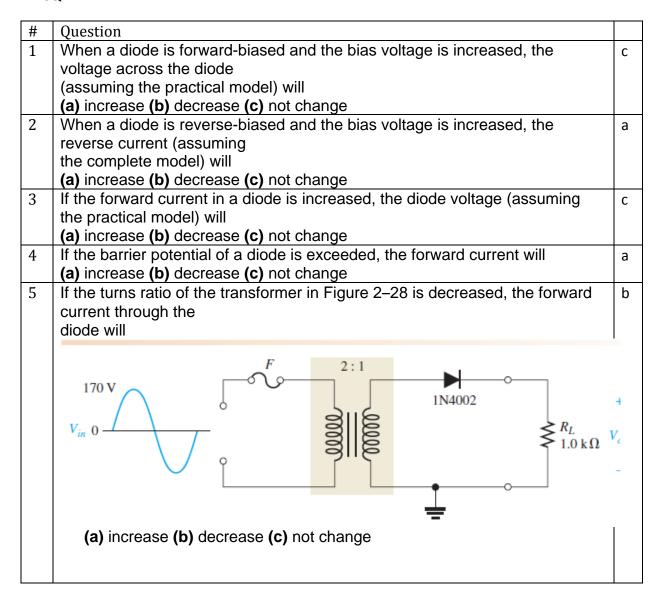


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T & False questions

#	Question	Answer
1	The two regions of a diode are the anode and the collector.	
2	A diode conducts current when forward-biased.	Т
3	Two types of current in a diode are electron and hole.	Т
4	The output frequency of a half-wave rectifier is twice the input	F
	frequency.	
5	PIV stands for positive inverse voltage.	F
6	The output frequency of a full-wave rectifier is twice the input frequency.	Т

MCQ

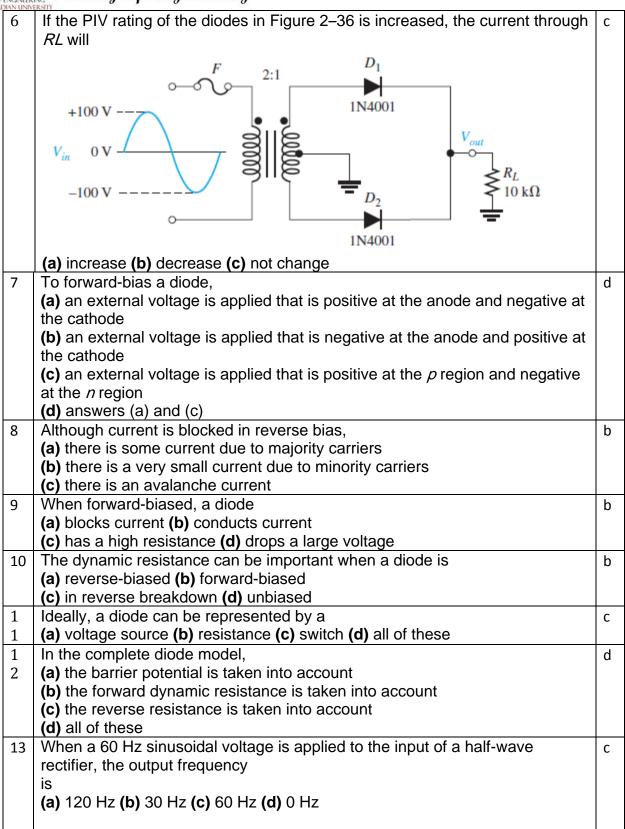




كلبة المندسة



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14	For the circuit in Question 15, the diode must be able to withstand a reverse	а
	voltage of	
	(a) 10 V (b) 5 V (c) 20 V (d) 3.18 V	
15	When a 60 Hz sinusoidal voltage is applied to the input of a full-wave	а
	rectifier, the output frequency	
	is	
	(a) 120 Hz (b) 60 Hz (c) 240 Hz (d) 0 Hz	
16	When the peak output voltage is 100 V, the PIV for each diode in a center-	b
	tapped full-wave	
	rectifier is (neglecting the diode drop)	
	(a) 100 V (b) 200 V (c) 141 V (d) 50 V	