

SEAT	No		١.
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SARDAR PATEL UNIVERSITY V.V.NAGAR

S.Y.B.Sc. (Sem- IIIrd) EXAMINATION- Nov.-2018 Electronic Devices(newcourse)

SUB.	COD	E:-U	503	CELE21	
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SUB. CODE:-US03CELE21	1 - F-00 mm	MARKS-70
DATE:-22/11/2019, Friday	TIME:-2:00 pm to 5:00 pm	

<u> </u>			
0.1	Choose correct answer		[10]
Q-1	Reactance of inductor is given by X _L =		
1.	(A) 2πfL	(C) 2fL	
	(B) 1/2πfL	(D) None of these	
	Cermet resistor are made from metal &	<u> </u>	
2.		(C) conductor	
	(A) Glass (B)semiconductor	(D) None of these	
	Diode clamper circuit is used in		
3.		(C)radio	
	(A TV. (B) power supply	(D) None of these	
	Pure semiconductor material is referred as	material.	
4		(C) extrinsic	
	(A) intrinsic	(D) None of these	
_	(B) doped  A tunnel diode is some times called as	· .′	
5.		(C) BJT	
	(A) Esaki diode	(D) None of these	
	(B) FET. Thermistor has temperature of	• •	
6.		(C) Negative	
	(A)Positive	(D) None of these	
	(B) Zero  Basically VVC device is a simply a	biased diode.	
7.		(C) Forward	
	(A) Reverses	(D) None of these	
	(B) Zero  Doped semiconductor material is known		
8.		(C) Extrinsic	
	(A Intrinsic	(D) None of these	
	(B) Metallic In amplitude modulation, the	of carrier signal as per modulating	
9.			
	signal.	(C) phase	
	(A)amplitude	(D) None of these	
	(B)frequency  The barrier potential is Negative on P—s		
10.		(C) both (A) and (B)	
	(A) P.side	(D) None of these	
	(B)N-side	(b) None of these	
	autono exection (any ten)		[20]
Q-2	Short answer type question. (any ten)		
1.	Draw a diagram of wire wound resistor.		
2.	Write a note on variable capacitor List different types of inductors ,Explain	any one in brief.	
3.	List different types of inductors, explain	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(b.to)
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4.	Write a note on P-type semiconductor		
5.	Explain temperature effects in reverse biased PN junction diode.		
6.	Write a note on N-type semiconductor.		
7.	Draw the basic circuit of linear diode detector.		
8.	List different applications of Thermistor and draw figure of any one.		
9.	Draw the symbol of voltage variable capacitor and tunnel diode.		
10.	Draw the characteristic of tunnel diode.		
11.	Define amplitude modulation.		
12.	Define modulation.		
Q.3	List different types of fixed resistor and explain any two fixed capacitors in detail.	[10]	
	OR		
Q.3	List different types of fixed capacitor and explain any two fixed capacitors in detail.	[10]	
Q.4	Give an account of step voltage response of RL circuit.	[10]	
	OR		
Q.4	Give an account of Forward bias PN junction diode and Reverse biase PN junction diode and also discuss temperature effects in Forward biased PN junction diode	[10]	
Q.5	Give an account of amplitude modulation .  OR	[10]	
Q.5	Write a note on voltage doubler and peak rectifier.	[10]	
Q.6	Write a note on voltage variable capacitor diode.	[10]	
	OR		
Q.6	Give an account Thermistor.	[10]	

