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HASMUKH GOSWAMI COLLEGE OF ENGINEERING, VAHELAL

MID SEMESTER EXAMINATION, SEPTEMBER-2016

Subject Code: 2171001 Date: 23/09/2016 Sem: 7TH

Subject Name: Microwave Engineering Time: 10:00 TO 10:50 **Total Marks: 20**

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	1. 2.	Atte Mal	tions: empt all questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks.	_
QUE.	.1	(A)	 Advantages of microwave communications. Why TEM mode is no longer in a Rectangular Waveguide? Define term: TE mode, TM mode. 	3
		(B)	Discuss the performance specification of Reflex klystron	3
QUE.	.2	(A)	Derive the expression for the impedance and reflection coefficient at any point on the line.	3
		(B)	Derive necessary equations for attenuation constant with reference to EM wave propagating along transmission line.	4
		(B)	OR Derive necessary equations for phase constant with reference to EM wave propagating along transmission line.	4
QUE.3	(A)	TWT	3	
		(B)	MAGNETRON	4
			OR	
		(A)	REFLEX KLYSTRON	3
		(B)	Draw the schematic of two cavity klystron. Explain the working, performance and applications of two cavity klystron Amplifier.	4