

BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi & Affiliated to Guru Gobind Singh Indraprastha University, Delhi)

(An ISO 9001:2015 Certified Institution)

A-4, Paschim Vihar, Main Rohtak Road, New Delhi – 110 063

Department of Electronics and Communication Engineering

Student Name		Enroll. No						
Semester: V sem Course Code.: ETEC303 Quiz/Test No.: 03		Date: Course Title: Digital Communication Marks Obtained						
					Max. Marks :	01	Evaluator's Sign	
					Q1. The minimum N	Nyquist bandwidth for the r	ectangular spectrum i	n raised cosine filter is
a) $2T_b$	b) 1/2 <i>T</i> _b	c) T ²	d) $2/T_b$					
Q2. If each pulse of	the sequence is to be detec	ted is in shap	e, the pulse can be detected w	ithout ISI.				
a) Sine	b) Cosine	c) Sinc	d) None of these	(0.1)				
Q3. Examples of Ny	quist filters are			(0.1)				
a) Root Raised	d Cosine filter	b) Raised Cosin	b) Raised Cosine Filter					
c) Root Raised	d & Raised Cosine filter	d) None of thes	se					
Q4. The main reason	n for using Maximum Like	lihood detectors is		(0.1)				
Q5. The main reason	n for using Matched filters	is		(0.1)				
Q6. The overall open	ration of the Matched filter	is the same as that of		(0.1)				
a) Correlation	b) Convolution	c) Coherent Rec	ception d) None of these	e				
transmission vo	ltage as -5V (wherever app	olicable). Transmission	nission voltage as +5V and per on bit rate is 10,000 bps. If the colerable absolute noise power	e probability				
Note: $Q(2.325)$	= 0.01		(0	.2+0.2=0.4)				
a) NRZ unipola	r	b) RZ bi	polar					
								