ANJUMAN-I-ISLAM'S KALSEKAR TECHNICAL CAMPUS, NEW PANVEL

Marks: 20

Duration: 1Hr

School of Engineering & Technology

Subject: CE

Date:

Class: Th	hird Year	Branch: Electrical
Q.1 Solv	e any two out of three (5 marks each)	
(b) The Cencoder.	and Explain the Diode detection circuit. Also exp Generator Polynomial of a (7,4) cyclic code is g(x) Use this encoder to fine code word for the messag a short note on FM Noise Triangle. [CO 1]	$= 1+x+x^2+x^3$. Draw feedback shift
Q.2 Solve	ve any one out of three (10 marks each)	
C_4 = C_5 =	a systematic linear block code, the three parity che $= d_1 \square d_2 \square d_3$ $= d_1 \square d_2$ $= d_1 \square d_3$	ck digits C ₄ ,C ₅ and C ₆ are given by:
i)		Constr
	uct generator matrix.	
ii)		Constr
	uct code generated by this matrix.	
iii)		Determ
	ine the error correcting capability.	
iv)		Prepare
	a suitable decoding table	
Decode the	the received words 101100 and 000110. [CO 4]	
(b) Draw receiver.	the TRF receiver and give disadvantages of TRF [CO 1]	receiver. Also explain Superhetrodyne
(c) Expla	ain with neat diagram the Foster seeley Discrimina	ator of FM detection.[CO 1]
••••••	ALL THE BEST	