

Enrolment No._____ HASMUKH GOSWAMI COLLEGE OF ENGINEERING, VAHELAL MID SEMESTER EXAMINATION SEPTEMBER-2016 Subject Code: 2730502 Date: 24 Subject Name:ADCOM Sem: 3

Time: 10:00 TO 11:15

Date: 24/09/2016 Sem: 3RD PG Total Marks: 30

	1. At 2. M	ctions: tempt all questions. lake suitable assumptions wherever necessary. gures to the right indicate full marks.	
QUE.1	(A)	Explain orthogonal and orthonormal signals. How does Gram-Schmidt procedure help to construct orthogonal set?	5
	(B)	Explain Elements of a Digital Communication System.	5
QUE.2	(A)	Explain model of a multichannel digital communication system with necessary block diagram.	5
	(B)	Explain Matched Filter with necessary Equation.	5
	(B)	OR Explain MC-CDMA system with necessary diagram.	5
QUE.3	(A)	Explain OFDM in details.	5
	(B)	Explain different types of Fading Channel in details.	5
	(A)	OR Explain representation of band-pass signals and systems in terms of equivalent low pass waveforms. Also explain response of a band pass system to a band pass signal.	5
	(B)	Explain Performance Characteristics of ML Estimators.	5