Seat No.:	Enrolment No.

Subject Code:3361106

Instructions:

Time: 10:30 AM TO 1:00 PM

1. Attempt all questions.

Subject Name: Multimedia Communication

GUJARAT TECHNOLOGICAL UNIVERSITY

DIPLOMA ENGINEERING - SEMESTER - VI • EXAMINATION - SUMMER 2015

	 Figure Use Use 	ke Suitable assumptions wherever necessary. ures to the right indicate full marks. of programmable & Communication aids are strictly prohibited. of only simple calculator is permitted in Mathematics. glish version is authentic.	
Q.1		Answer any seven out of ten. દશમાંથી ક્રોઇપણ સાતના જવાબ આપો.	14
	1.	Which are different signaling provided by switching system.	
	٩.	સ્વીચીંગ સીસ્ટમ કથા કથા જુદા જુદા સિઞ્નલ આપે છે?	
	2.	Differentiate GOS and Blocking Probability.	
	₹.	જીઓએસ અને બ્લોકીંગ્ પ્રોબેબીલીટી વચ્ચે ભિન્નતા સમજાવો.	
	3.	State application of MEO.	
	3.	MEO ની ઊપયૉગીતા જણાવો.	
	4.	Which antennas are used for Spacecraft?	
	٧.	Spacecraft મા કયા કયા antennas વપરાય છે?	
	5.	What is interworking?	
	ч.	Interworking એટલે શુ ?	
	6.	What is Digital Video Broadcasting?	
	۶.	Digital Video Broadcastingએટલે શુ?	
	7.	Which are the different Multimedia Standards?	
	૭.	Multimedia Standardsકથા કથાછે?	
	8.	Define Distributed SPC.	
	۲.	Distributed SPC ની વ્યાખ્યા આપો .	
	9.	Which are different ISDN standards.	
	E.	ISDN standardsકથા કથાછે?	
	10.	Define Tandem Exchange.	
	٩٥.	Tandem Exchange ની વ્યાખ્યા આપો .	
Q.2	(a)	Draw different signaling tone waveforms used for telephony.	03
પ્રશ્ન. ર	(અ)	Telephony મા વપરાતા વિવિધ signaling tone waveforms દોરો. OR	03
	(a)	Explain Synchronous duplex mode of Centralized SPC.	03
	(અ)	Centralized SPC મા Synchronous duplex mode સમજાવો.	03
	(b)	Draw block diagram of EPABX.	03
	(બ)	EPABX નો બ્લોક ડાયાગ્રામ દોરો.	03

Date:11-05-2015

Total Marks: 70

	(b)	between different elements of switching system.	03
	(બ)	સ્વીચીંગ સીસ્ટમનો logical connections અને elements દર્શાવતો બ્લોક	03
	(-,	ડાયાગ્રામ દોરો	
	(c)	Explain Multimedia Communication Model.	04
	(8)	Multimedia Communication Model સમજવી.	08
	(3)	OR	
	(c)	Which are different techniques to reduce storage requirement.	04
	(8)	Storage requirement ને ધટાડવા માટે ની પધ્ધતિઓ સમજવો.	٥x
	(d)	Which are the main features of DMS?	04
	(S)	DMS ના મુખ્ય લક્ષણો સમજવો.	OX
		OR	
	(d)	Explain the application of Distributed Multimedia.	04
	(S)	Distributed Multimedia ની ઊપયૉગીતા સમજવો.	08
Q.3	(a)	State and explain Kepler's three laws.	03
પ્રશ્ન. 3	(અ)	કેપ્લર ના ત્રણ નિયમો સમજવો.	03
		OR	
	(a)	Explain Telemetry, Tracking and Command subsystems.	03
	(અ)	Telemetry, Tracking અનgેCommand subsystemsસમજવો.	03
	(b)	Draw block diagram of Earth Station.	03
	(બ)	Earth Station નો બ્લોક ડાયાગ્રામ દોરો	03
	<i>a</i> .	OR	
	(b)	Explain Broadcast DTH receivers.	03
	(બ)	Broadcast DTH receiversસમજવો.	03
	(c)	Give difference between BRI and PRI?	04
	(8)	BRI અને PRI વચ્ચે નો તફાવત આપો. OR	OX
	(c)	Which services are offered by ISDN.	04
	(8)	ISDN કઈ કઈ service આપે છે?	OX
	(d)	Explain signal processing in multimedia communication.	04
	(5)	Multimedia Communication માં સિગ્નલ પ્રોસેસીંગ સમજાવો. OR	OX
	(d)	Which are different formats of digital audio file, digital image file and digital video file.	04
	(S)	Digital audio file, digital image file and digital video file ના વિવિધ ફોર્મેટ	OX
		લખો.	
Q.4	(a)	Explain serial transmission of ADSL for multimedia.	03
પ્રક્ષ. ૪	(અ)	Multimedia માટે ADSL થી થતુ serial transmission સમજવો.	03
		OR	
	(a)	Explain Mobile IP	03
	(SM)	Mobile IP સમજાવો	03

(b)	Explain MPEG-4 coding of audio-visual objects.	
(બ)	Audio-Visual objects નુ MPEG-4 coding સમજાવો.	08
	OR	
(b)	Explain speech and video transmission across GSM.	04
(બ)	GSMથી થતુspeech and video transmissionસમજાવો.	08
(c)	Explain video transmission across IP network.	07
(8)	IP network થી થતુ video transmission સમજાવો.	0.5
(a)	Explain various international standards for Video Coding.	04
(અ)	Video Coding ના જુદા જુદા international standards સમજાવો.	08
(b)	Which are significant features of JPEG 2000.	04
(બ)	JPEG 2000 ના મહત્વના લક્ષણો કયા છે?	08
(c)	What is Mobile ATM?	03
(8)	Mobile ATM શુ છે?	03
(d)	Which are interactive broadcast data services.	03
(S)	Interactive Broadcast Data services 88 88 89?	03
	(બ) (b) (c) (s) (a) (w) (b) (d) (c) (s) (d)	(બ) Audio-Visual objects નું MPEG-4 coding સમજાવી. OR (b) Explain speech and video transmission across GSM. (બ) GSMથી થતુspeech and video transmission સમજાવી. (c) Explain video transmission across IP network. (s) IP network થી થતુ video transmission સમજાવી. (a) Explain various international standards for Video Coding. (અ) Video Coding ના જુદા જુદા international standards સમજાવી. (b) Which are significant features of JPEG 2000. (બ) JPEG 2000 ના મહત્વના લક્ષણો કયા છે? (c) What is Mobile ATM? (s) Mobile ATM શુ છે? (d) Which are interactive broadcast data services.
