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	AM TECHNOLOGICAL UNI 8 (PT) (R, S) Examination June 2	*	1 21/30	Scheme)		
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Course Code: EC404 Course Name: ADVANCED COMMUNICATION SYSTEMS

Max. Marks: 100 **Duration: 3 Hours** PART A Answer any two full questions, each carries 15 marks. Marks 1 Briefly describe the four major sections of a microwave terminal station. (8)Explain the basic principles of MPEG-2 video coding. (7)2 Explain the need for protection switching arrangements. Compare the two types (7)of protection switching arrangements. b) Explain with block diagram the complete Digital Video Broadcasting (8) Transmission/Reception chain. Describe a microwave repeater. Explain the principle of operation of two types (8)of baseband repeaters. b) Explain the working principles of plasma displays. Compare it with LCD and **(7)** LED displays PART B Answer any two full questions, each carries 15 marks. Explain with block diagram Direct to Home Satellite Systems (7)Compare wireless Personal Area Networks and Wireless Local Area Network. b) (4)Explain the important features of fourth generation wireless technologies. (4) Describe WLL technology. (7)a) Explain briefly the perturbation of satellite orbit. Describe various reasons for (8) orbit perturbations. Explain Satellite Subsystems. Mention the functions of each segment in 6 (8)a) subsystems. b) Explain the important features of Bluetooth technology. (7)

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PART C

	2	Answer any two full questions, each carries 20 marks.	
7	a)	Discuss knife edge diffraction model with suitable diagram and derive the	(10)
		expression for Fresnel Kirchhoff diffraction parameter and radius of the n th	
		Fresnel zone circle.	
	b)	Explain different types of Spread Spectrum Multiple Access.	(10)
8	a)	Explain the concept of cell splitting, cell sectoring, repeaters and microcell.	(10)
	b)	Explain what you understand by traffic routing in wireless networks. Discuss	(5)
		different types of it.	
	c)	Explain the concepts of Push To Talk (PTT) technology.	(5)
9	a)	Explain with block diagram MIMO systems in wireless propagation mechanism.	
	b)	Explain the architecture of General Packet Radio Service (GPRS) with figure.	(10)