	l No. of Questions : 08	Total No. of Pages : 02
	Ph.D in Faculty of Applied Science Ph.D in Faculty of Engine ADVANCE DATA COM M.Code: 773	ering (CSE/ECE) MUNICATION
	e: 3 Hrs. RUCTIONS TO CANDIDATES:	Max. Marks : 100
1. 2.	Attempt any FIVE questions out of EIGHT of Each question carry TWENTY marks.	questions.
1.	a) Explain the following terms :	
	i) Information Capacity bits	
	ii) Baud rate	
	iii) Band width	
	iv) Carrier recovery	
	v) Clock recovery	
	b) Explain :	
	i) FSK	
	ii) ASK	
	iii) PSK	

- 2. a) What are the various types of topologies? What are the relative merits and demerits of these topologies?
 - b) What are the interfaces and modems used in data communication?
- 3. a) Discriminate between the send and receive windows for link and how are they related with (a) a selective repeat retransmission scheme (b) a Go back- N control scheme.

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- b) Describe various error detection and correction techniques. The generator polynomial is x3 + x + 1. A sender wants to send data 1001. Generate CRC code. Also describe error checking process if 3rd bit is inverted from left.
- 4. a) Compare time and space division switches.
 - b) Distinguish between Circuit and virtual circuit connection.
- 5. a) Explain Link access Protocols.
 - b) Explain various transmission modes and compare them.
- a) What are the protocols and standards? Explain.
 - b) Compare TDM and STDM
- a) What are the categories of networks? Explain.
 - b) Explain CSMA/CD in detail.
- a) Explain EIA RS-232 standard in detail.
 - b) Explain point-to-point and multi-point line configurations.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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