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What is ISDN? Explain in details with neat diagram. 7

Unit - III

3. a)	Define:	
,	i) RJ-45 ii) RJ-11	2
b)	What is the key advantage of BNC connector?	2
c)	List out the difference between active hubs and pass	ive
	hubs.	3
d)	What are types of bridge? Explain with example. Or	7
	What is Null Model? Explain in detail with diagram	1. 7
	Unit - IV	
4. a)	Define:	
	i) Guided media	
	ii) Unguided media	2
b)	Define ADSL.	2
c)	What are the characteristics of Base-band signal?	3
d)	What is electromagnetic signal? Explain its advantage	ges
	Or	
	What are the advantages of fibre optic cable over coaxial	
	cable?	7
	caoic:	,
5. a)	Unit - V	
b)	How do you identify errors in the signal?	2
c)	List out the methods available for error detection.	2
d)	Define flow integrity error.	3
	What is CRC? Explain CRC with example.	7
	Or	
	What is interleaved codes? Explain interleaved code with	S
	example	7

Roll No.....

CS - 501

B.E. V Semester

Examination, December 2014 Data Communication

Time: Three Hours

Maximum Marks: 70

Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

- ii) All parts of each question are to be attempted at one place.
- i i i) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.
- iv) Except numericals, Derivation, Design and Drawing etc.

Unit - I

- 1. a) Define digital signal.
 - b) Define the term frequency and period of a signal. 2
 - c) Define line coding. What are its characteristics? 3
 - d) Draw components of data communication system and state function of each component. 7

What are modes of data transmission? Explain with examples.

Unit - II

- 2. a) What are the advantages of TDM over FDM?
- b) Define synchronous TDM.
- c) What is direct sequence spread spectrum?
- d) What is the difference between message switching and packet switching?

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