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C	ode No: 135AE	R16	
A seeks	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDER	4D4D	
$\Delta \cap \Delta$	p. 1ech III Year I Semester Examinations November December 20	18 A 🗢	Λ
	DATA COMMUNICATION AND COMPUTER NETWORKS		
Tr:	(Common to CSE, IT)		/
11	me: 3 hours Max.	Marks: 75	
No	te. This question nanor contains to		
110	Part A is compulsory which coming 25		
A 25	Part A is compulsory which carries 25 marks. Answer all questions in Par	t A. Part B	
$\Delta (-1)$	consists of 5 Units. Answer any one full question from each unit. Each question marks and may have a, b, c as sub questions.	tion carries	Λ
	To marks and may have a, b, c as sub questions.	1 / / (7	$ \angle$
	PART - A	The state of the s	/
(25 Marks)	
•		23 Marks)	
1.a)	TOTAL POLICE IN A HOLLY OF K.	[2]	
$\wedge \wedge \wedge \circ \circ$		[3]	
	Define bit stuffing and character stuffing. Briefly discuss about ALOHA.		Λ
e)	Why the class C is most commonly used Network class?	[3]	/à
f)	Discuss how address mapping is performed.	[2]	
g)	Mention Congestion Prevention Policies and how does it work.	[3]	
h)	Flow control and Error control both are properties of Transport Layer and De-	[2]	
	Layer. What you think is it duplicity of properties in both layer or is it ok?	a Link	
A/2.		road ems	Α
/\ \i)	Define SNMP protocol. Discuss the properties of file transfer protocol	124	
J)	Discuss the properties of file transfer protocol.	[3]	/ /
	D. D. D.	L- J	
PART - B			
	(5	0 Marks)	
-2.	With a neat diagram explain the OSI reference model in detail? Explain the	f	
}-\ \	postorined in cachilaver.	1401	\wedge
N. Palline			/>
3.	What is multiplexing? Explain in detail about various types of multiplexing.	[10]	
4.			
7.	Describe various error detection and correction technique. The generator poly x^3+x+1 A sender wort to said the 1991 x^3+x+1	nomial is	
å arres	x ³ +x+1. A sender want to send data 1001. Generate CRC code. Also described process if 3 rd bit is inverted from the left.	ibe error	
$\Delta \cap \hat{\Box}$	Checking process if 3 rd bit is inverted from the left. OR What is high level data link control (HDLC)? Explain HDLC frame format	[10]	Λ
5 .	What is high level data link control HDLC)? Explain HDLC from	. , 🕰 (-	Δ
	tomat (There): Explain Tiple Irame format		/ \
_		[10]	
6.	What is classful addressing? Discuss class A, class B, class C, class D, class E with its range in decimal datted and the	E address	
	with its range in decimal dotted notation and example.	[10]	
^ _	OD.	_ _	
<u> </u>	any one of the multicasting routing algorithm.	[1/0]	Λ
1 2	Give an example to explain any one of the multicasting routing algorithm.	/ ill	
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8. Discuss the transport layer service primitives. What do you understand by 3 way hand shake Technique? Also discuss the TCP connection management. OR [10] Compare and contrast between integrated services and Differential Services. 10. Explain name – address and address – name resolution process. [10] 11. Describe the various parts of e-mail address and show the process of sending and receiving e-mails.