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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABA B. Tech III Year I Semester Examinations, November/December - 2018 DATA COMMUNICATION AND COMPUTER NETWORKS (Common to CSE, IT) Time: 3 hours Max. Mar Note: This question paper contains two parts A and B	△
Part A is compulsory which carries 25 marks. Answer all questions in Part A. consists of 5 Units. Answer any one full question from each unit. Each question 10 marks and may have a, b, c as sub questions.	Part B carries
PART - A	<i>*</i>
1.a) List various components in a network. b) List and define different network topologies. c) Define bit stuffing and character stuffing. d) Briefly discuss about ALOHA. e) Why the class C is most commonly used Network class? f) Discuss how address mapping is performed. g) Mention Congestion Prevention Policies and how does it work. h) Flow control and Error control both are properties of Transport Lever and Day 1.	[2] [3] [2] [3] [2] [3] [2] [3] [2]
i) Define SNMP protocol. Discuss the properties of file transfer protocol.	ment. [3]\(\) [2]\(\) [3]
PART - B	
(50 M)	•
2. With a neat diagram explain the OSI reference model in detail? Explain the function performed in each layer. 3. What is multiplexing? Explain in detail about various types of multiplexing.	tions [10] \triangle
4. Describe various error detection and correction technique. The generator polynom x^3+x+1 . A sender want to send data 1001. Generate CRC code. Also describe checking process if 3^{rd} bit is inverted from the left. OR What is high level data link control (HDLC)? Explain HDLC frame format in describe to the left.	error [10]
6. What is classful addressing? Discuss class A, class B, class C, class D, class E add with its range in decimal dotted notation and example. OR	lress [10]
OR 7. Give an example to explain any one of the multicasting routing algorithm.	

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11. AG	receiving e-r	mails.	of e-mail address			[10]	A
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