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R18 Code No: 155AV JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, March - 2021 DATA COMMUNICATIONS AND NETWORKS (Electronics and Communication Engineering) Max. Marks: 75 Time: 3 Hours Answer any five questions All questions carry equal marks How does information get passed from one layer to the next in the Internet model? Explain. [7+8]Illustrate how CDMA works in wireless LAN. b) What is Cyclic Code? Explain the CRC error detection technique. 2.a) [8+7]Give a detail note on the Random Access protocols. b) Explain the functionality of ICMP protocol. 3.a) What is the format of IPv4 header? Describe the significance of each field. [7+8]b) Describe why an application developer might choose to run an application over UDP 4.a) rather than TCP. Demonstrate three way handshake connection establishment in TCP. [7+8]b) Is an application's architecture different from the network architecture? Defend your 5.a) answer. [8+7]What is DNS? Explain how DNS works. b) Explain the categories of networks. 6.a) Demonstrate Go Back-N sliding window Protocol with an example. [7+8]b) Explain IEEE 802.11 standard for Ethernet with the help of frame format. Differentiate between pure ALOHA and slotted ALOHA. Write a short note on: 8. a) SMTP [8+7]b) HTTP. -00O00---