

Code No: 155AU**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year I Semester Examinations, August - 2022****DATA COMMUNICATION AND COMPUTER NETWORKS****(Information Technology)****Time: 3 Hours****Max. Marks: 75****Answer any five questions
All questions carry equal marks**

- - -

- 1.a) What is connection? Explain different types of connections.
b) Discuss the features and principles of OSI reference model diagram. [7+8]
2. Explain in detail different types of transmission media with neat sketches. [15]
3. Explain the following terms.
a) ALOHA.
b) Architecture of IEEE 802.11 [7+8]
- 4.a) Compare and contrast a random access protocol with a controlled access protocol.
b) What is hamming code? Explain its purpose. [9+6]
- 5.a) Differentiate between physical and logical addressing.
b) What is internetworking? Explain its types. [7+8]
- 6.a) Discuss the applications of tunneling.
b) Differentiate between unicast, broadcast and multicast streams. [6+9]
- 7.a) Briefly explain about process to process delivery.
b) What is congestion control? Explain. [8+7]
- 8.a) Differentiate between FTP and SMTP.
b) What is an Electronic Mail (E-Mail)? Discuss the advantages of it. [7+8]

---oo0oo---