

Code No: 155AN

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year I Semester Examinations, January/February - 2023****COMPUTER NETWORKS****(Common to CSE, CSBS, CESE, CSE(AIML), CSE(DS), CSE(IOT))****Time: 3 Hours****Max. Marks: 75****Note:** i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

**PART – A****(25 Marks)**

- 1.a) What is ARPANET? [2]
- b) Write about Co-axial cable transmission media? [3]
- c) What is framing? [2]
- d) What are the advantages of sliding window protocol? [3]
- e) What is non-adaptive routing? [2]
- f) What is meant by congestion? [3]
- g) What is the function of transport layer? [2]
- h) What is UDP? [3]
- i) What is the function of application layer? [2]
- j) What is DNS? [3]

**PART – B****(50 Marks)**

2. Explain the TCP/IP reference model. [10]
- OR**
3. Explain about fiber optics transmission media. [10]
- OR**
4. Explain the stop-and-wait protocol. [10]
- OR**
5. Explain about wireless LAN. [10]
- OR**
6. Explain the shortest-path routing algorithm. [10]
- OR**
- 7.a) Explain the IPV4 header.
- b) What is packet fragmentation? [5+5]
- OR**
8. Explain the elements of transport layer. [10]
- OR**
9. Explain the TCP transmission policy. [10]
- OR**
10. Explain about HTTP. [10]
- OR**
11. Explain about streaming audio. [10]