Code No: 125DT JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, October - 2020 COMPUTER NETWORKS (Common to CSE, IT)

| Time | : 2 hours | Max. Marks: 75 |
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| Answer any five questions All questions carry equal marks | | |
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| 1.a) b) | Elaborate on the design issues of data link layer. Discuss about Internet standards. | [8+7] |
| 2.a) b) | Describe the Transmission Media. What are the types of Transmission What are the distinct characteristics of local area networks, explain brie | |
| 3.a) b) | Write about CSMA and CSMA/CD in detail. What is Carrier Sense Multiple Access? Explain about the difference CSMA. | nt approaches of [7+8] |
| 4.a) | What are the different cable topologies of an Ethernet? Explain Manche | ester Encoding. |
| b) | Define Bridge. Explain the different types of Bridges. | [8+7] |
| 5.a) | Explain shortest path routing algorithm with an example | |
| b) | Discuss the Optimality Principle with a suitable example. | [7+8] |
| 6.a) | Illustrate design issues of Network layer. | |
| b) | Explain the prevention polices of congestion. | [7+8] |
| 7.a) | What is the former of IPv4 header? Describe the significance of each fig | eld. |
| b) | Write a detailed note on transport services. | [8+7] |
| 8.a) | Discuss in detail about the connection establishment and release in TCF |) . |
| b) | How DNS service maps domain names to IP addresses. | [8+7] |

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