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| **USN** | 1 | D | A |  |  | C | S |  |  |  |  | Sub Code | 21CST502 |

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| ait big letter head scan - Copy | **Dr. Ambedkar Institute of Technology**  (An Autonomous Institution, Aided by Government of Karnataka  Affiliated to Visvesvaraya Technological University, Belgaum & Approved by AICTE, New Delhi)  BDA Outer Ring Road, Near Jnana Bharathi Campus, Mallathally, Bengaluru-560056, Karnataka |

Fifth Semester B.E. Degree (Autonomous) Continuous Internal Evaluation (CIE – I)

ODD Semester 2023-24

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| Date : 13-12-2023 | Sub.Title: Computer Networks | Timings : 3:30-4:30PM |
| Day : Wednesday | Sub. Code :21CST502 | Time duration : 60 mins |
| Branch : CSE |  | Max marks : 20 |
| Semester / Sec : 5th A,B,C,D | CIE – I | Staff in-charge: HarishKumar.H.C  Dr. Preranachaithra |

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| Q. No. | | **Note : Answer ALL the questions** | Marks | Course  Outcomes | RBT  Levels |
| 1 | a) | Explain the five components of data communication system with neat diagram. | 5 M | CO1 | L2 |
|  | b) | Define the term data communication and also list out and explain the four fundamental characteristics of data communication. | 5 M | CO1 | L1 |
| 2 | a) | Explain TCP/IP protocol suit with neat diagram and also list out the protocols present in each layer. | 5 M | CO1 | L2 |
|  | b) | Name the four basic network topologies, and cite an advantage of each  Type. | 5M | CO2 | L1 |
|  |  | or |  |  |  |
|  | c) | Explain different types of errors with suitable example. | 5 M | CO1 | L2 |

**Prepared By Approved By H.O.D**

Harish Kumar.H.C

Dr. Preranachaithra

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| **Quiz/Objective Type Questions** | | | | | | | | |
| **Note :** ***Answer ALL the questions*** | | | | | | | | |
|  | Which protocol layer uses the protocols WWW, HTTP, FTP, SMTP etc.? | | | | | | | |
| A | Application |  | Transport | C | Network | D | Data-link |
|  | How many layers are there in the ISO OSI reference model? | | | | | | | |
| A | 5 | B | 7 | C | 3 | D | 2 |
|  | What is the full form of OSI? | | | | | | | |
| A | optical service implementation | B | open service Internet | C | open system interconnection | D | operating system interface |
|  | Computer Network is | | | | | | | |
| A | Sharing of resources and information | B | Collection of hardware components and computers | C | Interconnected by communication channels | D | All of the above |
|  | How many layers are there in the TCP/IP protocol suite? | | | | | | | |
| A | 5 | B | 6 | C | 7 | D | 3 |
|  | Which topology requires a multipoint connection? | | | | | | | |
| A | Ring | B | Bus | C | star | D | Mesh |
|  | What type of transmission is involved in communication between a computer and a keyboard? | | | | | | | |
| A | Half-duplex | B | Full-duplex | C | Simplex | D | Automatic |
|  | What are nodes in a computer network? | | | | | | | |
| A | the computer that routes the data | B | the computer that terminates the data | C | the computer that originates the data | D | all of the mentioned |
|  | Three or more devices share a link in \_\_\_\_\_\_\_\_ connection. | | | | | | | |
| A | Multipoint | B | Unipoint | C | Point to point | D | Simplex |
|  | Which connection is necessary for a computer to join the internet? | | | | | | | |
| A | internet society | B | internet service provider | C | different computer | D | internet architecture board |

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