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**Presidency University**

**Bengaluru**

**School Of Computer Science and Engineering & Information Science**

**Summer Term End-Term Examinations, Aug 2024**

**Date**: 07-08-2024

**Time**: 9.30am – 12.30pm

**Max Marks**: 100

**Weightage**: 50%

**Odd Semester**: 2023 - 24

**Course Code**: CSA2004

**Course Name**: Computer Networks

**Department: SOIS**

**Instructions:**

1. *Read the all questions carefully and answer accordingly.*
2. *Do not write any matter on the question paper other than roll number.*

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| **Q.No** | **Questions** | **Marks** | **CO** | **RBT** |
| 1 | 1. Name the different types of Guided Media | 4 | CO1 | L1 |
| 1. Describe layering and OSI layering model | 6 | CO1 | L2 |
| 1. Explain different functionalities of the OSI reference model. | 10 | CO1 | L3 |
| OR | | | | |
| 2 | 1. List the components of Data | 4 | CO1 | L1 |
| 1. Explain the Data Flow and Representation | 6 | CO1 | L2 |
| 1. Explain the different functionalities of TCP/IP Model | 10 | CO1 | L3 |

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| 3 | 1. Define the following: Attenuation, Distortion, Noise | 4 | CO2 | L1 |
| 1. Differentiate between Periodic and Nonperiodic Signals | 6 | CO2 | L2 |
| 1. Explain Stop and Wait Protocol | 10 | CO2 | L3 |

OR

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| 4 | 1. Define the following: Bandwidth, Latency, Delay Product, Jitter | 4 | CO2 | L1 |
| 1. Explain the different types of Errors | 6 | CO2 | L2 |
| 1. Explain in detail Sliding Window Protocol | 10 | CO2 | L3 |

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| 5 | 1. Define a Packet | 4 | CO3 | L1 |
| 1. Describe the Transition from Ipv4 to Ipv6 | 6 | CO3 | L2 |
| 1. Demonstrate Distance Vector routing algorithm | 10 | CO3 | L3 |

OR

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| 6 | 1. Define OSPF, RIP, BGP | 4 | CO3 | L1 |
| 1. Build the data gram packet with IPv4 | 6 | CO3 | L2 |
| 1. Demonstrate the data gram packet with IPv6. | 10 | CO3 | L3 |

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| 7 | 1. List the Difference between Reliable and Unreliable Protocols | 4 | CO4 | L1 |
| 1. Explain the different Protocols in the Application layer in detail | 6 | CO4 | L2 |
| 1. Illustrate the DNS in application layer | 10 | CO4 | L3 |

OR

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| 8 | 1. Outline the DNS System | 4 | CO4 | L1 |
| 1. Distinguish the TCP Connection | 6 | CO4 | L2 |
| 1. Demonstrate the importance of HTTP, SMTP, FTP in application layer | 10 | CO4 | L3 |

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| 9 | 1. Define Network criteria | 4 | CO1 | L1 |
| 1. Explain the Physical structures of Computer networks. | 6 | CO1 | L2 |
| 1. Explain Radio, Microwaves, Infrared | 10 | CO1 | L3 |

OR

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| 10 | 1. Define LAN , WAN , MAN | 4 | CO2 | L1 |
| 1. Compare Wired Network and Wireless Network | 6 | CO2 | L2 |
| 1. Illustrate the Flow Control in Data Link layer | 10 | CO2 | L3 |