|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Roll No |  |  |  |  |  |  |  |  |  |  |  |  |

 ****

**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.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 |