

BACHELOR OF SCIENCE (COMPUTER SCIENCE) (CBCS - 2018 COURSE)
T.Y.B.Sc.(Computer Science) Sem-V : WINTER- 2022
SUBJECT : DATA COMMUNICATION & NETWORKING-I

Day : Monday

Date : 19-12-2022

W-20123-2022

Time : 02:00 PM-05:00 PM

Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.

-
- Q.1** Answer **ANY TWO** of the following: **[12]**
- a) Explain Base Band and Broad Band Transmission.
 - b) Differentiate between LAN, WAN, MAN.
 - c) With neat diagram explain working of Router and Gateway.
- Q.2** Answer **ANY TWO** of the following: **[12]**
- a) Draw neat labelled diagram and explain Co-axial Cable and Fiber Optic Cables.
 - b) Illustrate the working of Storage Area Networking.
 - c) Differentiate between 10/100Mbps and Gigabit Ethernet.
- Q.3** Answer **ANY TWO** of the following: **[12]**
- a) Elaborate working of Network Interface Card.
 - b) Illustrate -FDDI and Broad Band Technologies.
 - c) Differentiate between Connection-Oriented and Connectionless Services.
- Q.4** Answer **ANY THREE** of the following: **[12]**
- a) Explain with neat diagram OSI Network Reference Model.
 - b) Illustrate terms -Twisted Pair Cabling, UTP.
 - c) Illustrate Hybrid Network with suitable diagram.
 - d) Draw and explain the working of Telephone Network.
- Q.5** Answer **ANY FOUR** of the following: **[12]**
- a) Elaborate the role of Repeater and Bridge in Networking.
 - b) Explain any 2 network topologies with suitable diagrams.
 - c) What is Point to Point Communication ?Explain with diagram.
 - d) What is the Role of Device Driver Software? Explain.
 - e) Explain different transmission modes.
 - f) Define - computer network and explain need of networking.

* * * * *