

St. Mira's College for Girls, Pune
(Autonomous-Affiliated to Savitribai Phule Pune University)
Class-T.Y.B.Sc(C.S)
Subject: Computer Networks-II
Subject Code:BS61703
Semester: VI
Year: 2021-22

All Units - focusing on Skill Development, Employability and Entrepreneurship

St. Mira's College for Girls

T.Y.B.Sc(C.S)

Subject: Computer Networks-II Sem-6

Flexi Tst-1 Date:01-02-2022 Marks-20

- Q.1 Attempt any 5 from the following: (5x4=20 Marks)
- Explain Bluetooth architecture in detail.
 - Differentiate between BSS and ESS.
 - Explain IP datagram in detail.
 - An organization is granted the block 130.56.0.0/16. The administrator wants to create 1024 subnets.
 - Find the subnet mask.
 - Find the number of addresses in each subnet.
 - Find the first and last addresses in subnet 1.
 - Find the first and last addresses in subnet 1024.
 - A block of addresses is granted to a small organization. We know that one of the addresses is 205.16.37.144/28. Find the following for the same:
 - Subnet mask
 - First address
 - Last address
 - Total number of addresses in the block
 - Define Congestion. Explain different congestion control policies used at Network Layer.
 - Differentiate between Open loop and Close loop congestion system.

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COMPUTER NETWORKS II - Flexi I

a) Bluetooth Architecture:
=> A bluetooth architecture is used for low power radio communications to wireless phones, computers and other network devices over short distances.
It doesn't require any distribution networks or access points. The devices find each other and create a network instance. It defines two types of networks:
PICONET: It means a small network and can have upto 8 stations. It is an ad-hoc network. One station is Primary (Master) and it interconnects upto 7 Secondary (Slave) networks. It uses a 32-bit MAC address having a limitation of upto 8 devices. But an additional 8 devices can also mean, they cannot actively participate in communication.

Class-F.Y.M.Sc(C.S)

Alka
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