

Question bank:

chp 1: Basic network concepts:-

1. Explain client server model & peer-to-peer model with suitable diagram. Write advantages & disadvantages (4-points) (4m)
2. Compare OSI & TCP/IP model, state its advantages & disadvantages (4-points) (4m)
3. Explain physical, logical, port address and ^{specific / socket} ~~socket~~ address (4m)
4. Explain various types of network with suitable diagram. (diagram, 5-6 points) (6/8m)
(8m ka pucha to characteristies & working)
5. List any 4 application of computer network (4m) (1-2 points)
6. Explain working of OSI model with suitable diagram describe roles and responsibilities of each layer of OSI model. (4 points each) (any 2 layer to 2m) (6/8m)

chp 2: Network topologies and networking devices:

1. Calculate no of cables required for end no of pc's in following topology:-
a) bus topology
b) star topology (1-2) points each. - (4m)
c) ring topology (3-4) points each - (6m)
d) mesh topology justify your ^{answer} (4m)
2. Difference between hub & switch any 4-points. (4m)
3. List any Explain following network topologies with suitable diagram, characteristics, advantages & disadvantages: (6m)

9. Write short note on client server software
eg: Telnet and FTP. (6-8m).

Chp 8: Transmission Media:

1. Explain concept of switching (6m)
eg: circuit switch network with suitable diagram

2. Define multiplexing & explain its types with suitable diagram.

a) FDM (8m)

b) WDM

c) TDM (explain TDM with types 6m ka sahaj hai).

3. Explain architecture of bluetooth technology. (6m) ^{diagram expected.}

4. Write short note wifi technology. (4m) - ^{diagram.} if mention then

5. Define guided media, list the types of guided media. (4m)

6. State the need of transmission media. (4m)

7. describe any 6 factors

7. state the use selecting transmission media. (4m)

8. Explain twisted paired cable & its type with suitable diagram. (6m)

9. Explain ^{axial} coaxial cable with suitable diagram. (6m)

10. Explain ^{wiring} of fibre optic cable and its type with suitable diagram. (8m).

- a) star topology
- b) bus topology
- c) ring topology
- d) mesh topology
- e) tree topology
- f) hybrid topology

4. Explain ^{calculation} characteristics of data rate for noiseless channel;
1. noiseless channel (4m)
5. discuss various majors responsible for network performance. (4m)

6. Design & draw one computer network for any one even:
application
- a) college (4-6m) any one
 - b. lab (exp 1 mai diya) example.
 - c. hospital
 - d. school
 - e. small office

7. Explain data transmission ^{impairment} ~~impairments~~ ^{impairments} (4m)

8. Explain following network devices in detail:
- a. hub & its type (active, passive)
 - b. switch
 - c. bridge (6-8m)
 - d. router *table*
 - e. gateway
 - f. repeater



11. Explain signified media and its types. (6-8m)
(expected characteristics, construction of diagram, advantages & disadvantages, category of table types of connector, application of each media)