

TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF COMPUTER APPLICATIONS
EXAMINATION : MAY - 2024
SEMESTER - II
Sub : Advanced Computer Network (MCA- 206-22)

Date : 27/05/2024
Total Marks : 60
Time: 10.00 am to 12. 30 pm

Instruction:

1. All questions are compulsory unless and otherwise stated.
 2. Bold figures to the right of every question are the maximum marks for that question.
 3. Candidates are advised to attempt questions in order.
 4. Answers written illegibly are likely to be marked zero.
 5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
 6. Draw neat and labelled diagram wherever necessary.
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Q. 1. Answer the following in 2 - 3 lines. (Any 5) (10)

1. What is Fault Tolerance?
2. What is Virtualization?
3. What is a cold spare?
4. Explain the working of DHCP.
5. Distinguish between TCP and UDP protocol.
6. Explain working of switch.
7. What is Clustering?

Q. 2. Answer the following in short. (Any 4) (20)

1. Define computer network and state its advantages and disadvantages.
2. What is client server network? State its advantages and disadvantages
3. What is message switching? Explain with diagram.
4. What is VPN tunneling? What are its types?
5. Write a note on SSL and TLS.
6. Explain Application Level Gateway with diagram.

Q. 3. Answer the following in detail. (Any 3) (30)

1. Explain the working of all seven layers of OSI model.
2. What is Cloud Computing? Explain IaaS model of Cloud Computing?
3. What is IP address? Explain with example subnetting used in Class C.
4. Explain type0, type1 and type2 hypervisors with diagrams and examples.
5. What is network topology? Explain any one topology in detail with diagram.
