

TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF COMPUTER APPLICATIONS
EXAMINATION : JANUARY - 2025
SEMESTER - II
Sub : Advanced Computer Network (MCA- 206-22)

Date : 06/01/2025
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.

Q. 1. Answer the following in 2 - 3 lines. (Any 5) (10)

1. Define OSI model.
2. State advantages and disadvantages of Wi-Fi Networks.
3. Define LAN.
4. What is IP header?
5. What is use of FTP protocol?
6. What is router and hub?
7. Define VPN.

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

1. What is transmission media? Explain co-axial media.
2. Explain the HTTP protocol.
3. What is peer-to-peer network? State its advantages and disadvantages.
4. State the advantages and disadvantages of Internet.
5. What is subnetting? What is subnet mask? What is the need of subnetting?
6. Distinguish between TCP and UDP protocol.

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

1. Explain the working of layers of OSI model.
2. What is frame relay? Explain with diagram.
3. What is firewall? Explain Packet filtering firewall? State its advantages and disadvantages.
4. What is message switching? Explain with diagram.
5. What is topology? Explain any two topology in detail with diagram.
