

**TILAK MAHARASHTRA VIDYAPEETH, PUNE****MASTER OF COMPUTER APPLICATIONS****EXAMINATION : DECEMBER - 2023****SEMESTER - II****Sub : Advanced Computer Network (MCA- 206-22)**

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**Date : 23/12/2023****Total Marks : 60****Time: 10.00 am to 12.30 pm**

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**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. Define the term "WAN"
  2. Define the term "BUS topology".
  3. Explain the term "Centralised Network".
  4. Explain the term "Flow control".
  5. Explain the term "TCP".
  6. Explain the term "PaaS".
  7. Explain the use of Subnet.
- Q. 2. Answer the following in short. (Any 4) (20)**
1. What is transmission media? Explain any two types of transmission media.
  2. What is subnetting? What is the need of subnetting?
  3. State the advantages and disadvantages of Proxy Server.
  4. What is Desktop Virtualization? State its advantages and Limitations.
  5. State advantages and disadvantages of Wi-Fi Networks.
  6. What is network topology? Explain any one topology in detail with diagram.
- Q. 3. Answer the following in detail. (Any 3) (30)**
1. What is an IP address? Explain the class B IP addressing.
  2. Explain seven layers of TCP/IP model
  3. Explain type0, type1 and type2 hypervisors with diagrams and examples.
  4. Explain IaaS & SaaS service models of Cloud Computing?
  5. Explain different wireless security methods used?
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