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MASTER OF SCIENCE (M.Sc) in COMPUTER APPLICATIONS
EXAMINATION : DECEMBER - 2024
SEMESTER - I
Sub.: Advanced Computer Networks (MSC - 105-22)

Date : 30/12/2024**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.

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

1. Explain the working of Router.
2. What is VPN tunneling?
3. What is IP header?
4. Define the term "NAT".
5. Define the term "Packet Switching".
6. What is the use of Wi-Max Network?
7. What is Host ID?

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

1. Define computer network and state its advantages and disadvantages.
2. What is an IP address? Explain the classes of it.
3. What is WINS? Explain the working of WINS.
4. Write a short note on Disaster Recovery Plan.
5. Explain type1 and type2 hypervisors with examples.
6. Explain any two service models of Cloud Computing?

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

1. What is network topology? Explain any two topologies in detail with diagram.
 2. Explain the working of all seven layers of OSI model.
 3. What is message switching? Explain with diagram.
 4. What is proxy server? Explain working of proxy server.
 5. Explain working of RAID1 and RAID1+0 with diagrams. State its advantages and disadvantages.
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