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MASTER OF SCIENCE (M.Sc) in COMPUTER APPLICATIONS
EXAMINATION : MAY- 2026

SEMESTER - II

Sub : Advanced Computer Network (MSC24-202)

Date : 28/05/2026

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. Expand PPPoE.
2. Name any two tunneling protocols.
3. Define spyware.
4. Name any one email protocol.
5. Mention any two disadvantage of Internet.
6. Expand UTP and STP.
7. Define MAN & WAN.

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

1. Differentiate between coaxial and fiber optic cables.
2. What are the functions of a router and a gateway?
3. What is a terminal server?
4. Differentiate between client-server and peer-to-peer models.
5. Explain in details "Ad hoc network."
6. Write a note on honeypots.

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

1. Discuss different types of security threats in computer networks.
2. What is a VPN? Explain its types, tunneling methods, and protocols.
3. Compare and explain circuit switching, packet switching, and message switching.
4. Compare the OSI model with the TCP/IP model.
5. Describe various types of proxy servers and their applications.
