CB

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MASTER OF COMPUTER APPLICATIONS

EXAMINATION : JUNE - 2025

SEMESTER - II

Sub : CTIT (Cyber Security + Introduction to Block Chain) (MCA24 -201)

Date : 03/06/2025 **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 the term “Public Key”.
2. Define the term “Trojan”.
3. Define the term “Keylogger”.
4. Define the term “Computer Resource”.
5. Define the term “Kiting”.
6. Define the term “Computing Virus”.
7. Define the term "Cyber Stalking".

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

1. Differentiate between private vs public block chain.
2. Write a short note on smart contracts.
3. Write a short note on IPR.
4. Explain in detail phishing attack.
5. Write a short note on Digital Signature.
6. Write a short note on E-mail Spoofing.

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

1. Define the term "Money Laundering". Explain the stages involved in Money Laundering.
2. Define the term "Malware". Explain any four types of Malwares.
3. Define the term "Cryptography". Explain Asymmetric key cryptography in detail.
4. Define the term "Firewall". Explain in detail any 2 types of firewalls.
5. How Block Chain works. Explain the consensus mechanism used in block chain.