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TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF COMPUTER APPLICATIONS (MCA)
EXAMINATION : MAY - 2026
SEMESTER - II
Sub : CTIT (Cyber Security + Intro. Block Chain) (MCA24-201)

Date : 26/05/2026 **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. Define the term “Spoofing”.
2. What do mean by “Session Hi-jacking”.
3. State the use of firewall?
4. What is Consensus mechanism?
5. What is Hyperledger?
6. Define the term “Steganography”.
7. Define the term “Cyber Stalking”.

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

1. Explain any five types of Banking or finance related to cyber crime.
2. Write a short note on “Phishing Techniques”.
3. Write a short note in IPR.
4. Explain the concept of 'zero trust' security.
5. Write a short note in Smart Contract.
6. Describe the concept of 'Defense in Depth' in cyber security.

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

1. What is Money Laundering? Explain the stages involved in Money Laundering.
2. Explain any five types of Cyber crimes.
3. Define the term Malware. Explain any five types of Malwares.
4. Define the term "Cryptography". Explain Symmetric key cryptography in detail.
5. Define the term “Block chain”. Explain different types of Block chains.