

**TILAK MAHARASHTRA VIDYAPEETH, PUNE**  
**MASTER OF COMPUTER APPLICATIONS**  
**EXAMINATION : MAY - 2024**  
**SEMESTER - II**  
**Sub : Current Trends in IT (CTIT) (MCA- 204-22)**

Date : 25/05/2024

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. Define the term "Private key".
2. Define the term "Cyberstalking".
3. Define the term "Electronic Gazette".
4. What is Transducer?
5. What is "Steganography".
6. What is "Polymorphic Virus".
7. What is smart contract?

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

1. Write a short note on "Phishing Techniques".
2. Explain the IoT Environment Characteristics.
3. Explain the stages involved in "Money Laundering".
4. Explain the need of block chain technology
5. Write a short note on "A-Symmetric key cryptography".
6. Define the term "Firewall". Explain the working of Firewall.

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

1. Definition of the term "Sensing", Explain any four types of sensors.
2. Explain any five types of Cyber crimes.
3. Define the term Malware. Explain any four types of Malwares.
4. Explain the following Cyber Attacks.
  - a. Spoofing
  - b. Hijacked session attacks
  - c. Password Cracking
  - d. Web Spoofing and E-mail Spoofing
  - e. Web defacement
5. Explain the threats and security requirements in IoT.

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