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Total No. of Pages : 02

Total No. of Questions : 09

B.Voc. (Web Technologies and Multimedia) (Sem.–5)

COMPUTER NETWORK SECURITY

Subject Code : BVWM504-19

M.Code : 90850

Date of Examination : 28-11-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly :

- a. What does the DOM represent in web development?
- b. How does SSL/TLS ensure data confidentiality?
- c. What is the main function of a routing protocol?
- d. How can a firewall protect against unauthorized access?
- e. How can encryption protect against key loggers?
- f. Name an example of a technical control for risk mitigation.
- g. What is the importance of continuous monitoring in risk management?
- h. How does a Distributed Denial of Service (DDoS) attack differ from a regular DoS attack?
- i. How can anti-spyware software help?
- j. What is the principle behind the sandboxing model in mobile security?

SECTION-B

2. Define the term "threat actor" in the context of information security. How does risk assessment aid in making informed decisions about information security measures?
3. What is a phishing attack, and how can users avoid falling victim to it? How does a VPN enhance online privacy and security?
4. What is an Intrusion Detection System (IDS)? How does network monitoring contribute to defense?
5. What is Cross-Site Scripting (XSS)? How can you prevent SQL injection attacks? Elaborate with suitable example.
6. What does a VPN provide for network security? How does tunneling contribute to VPN functionality?

SECTION-C

7. How does TCP ensure reliable data delivery? What is the function of the TCP three-way handshake? Describe the process of establishing a TCP connection, including the steps involved in the three-way handshake and its significance in data transmission.
8. What is the purpose of SSL certificates? Define a user session in the context of web applications. Explain how the SSL/TLS protocol secures data transmission over the internet and elaborate on the steps involved in establishing a secure SSL connection.
9. What is jailbreaking or rooting, and what security risks does it pose? Compare and contrast the security models of Android and iOS, highlighting their approaches to app permissions and ecosystem security.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.