Reg. No. : | | | | | | | | | | | | |

Question Paper Code : 10848

M.C.A. DEGREE EXAMINATIONS, APRIL/MAY 2023

Second Semester

MC 4205 – CYBER SECURITY

(Regulations 2021)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is the quintessence of planning for Cyber Security?
2. Define: Asset Identification.
3. Why do we need Disaster Management?
4. What are the problems that prone to spring out in the case of absence of Mobile Device Security?
5. Specify the role of Firewall.
6. In what aspect the business applications are being protected by Cyber Security?
7. Write a short note on Cryptographic Technique.
8. Recall the working of Cloud Security.
9. What is Information Risk Reporting?
10. Mention the importance of Information Security Compliance?

PART B — (5 × 13 = 65 marks)

11. (a) Compare and Contrast Security models. Which one you are inclined to? Why?

Or

(b) In what ways Risk Management technique used for enhanced protection? Explain in detail.

12. (a) How the Cybercrime does occur? What are the Security controls that can be incorporated?

Or

(b) How to preserve the documents, records and digital evidences? List out the challenges involved in.

13. (a) Discuss the role of Firewall and IP security in Network Management.

Or

(b) Describe the process of Authentication and Access Control for system access.

14. (a) Explain the components of Intrusion Detection systems and give its applications.

Or

(b) Explain about the Computer Forensics Services performed by forensics professionals.

15. (a) Expand the Security Monitoring and investigate its esoteric part.

Or

(b) Discuss about Security Audit, Security Performance and improvement of best practices.

PART C — ($1 \times 15 = 15$ marks)

16. (a) Explain the Security models in the planning stage. What are the rudiments and subtleties of working mechanism?

Or

(b) List out the risks and vulnerabilities that are bound to occur in Web Applications. What are the measures that are put forth by OWASP to mitigate them and in course explain ZAP tool.

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