

C1031

Total Pages : 4

Roll No.

MCS-601

Information Security Assurance: Framework, standards and Industry Best practices

Master of Computer Application (MCA-20)

3rd Semester Examination, 2022 (June)

Time : 2 Hours]

Max. Marks : 80

Note : This paper is of Eighty (80) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

SECTION–A

(Long Answer Type Questions)

Note : Section 'A' contains Five (05) long answer type questions of Twenty (20) marks each. Learners are required to answer any Two (02) questions only.

(2×20=40)

1. Answer the following :
 - (a) Write note on ISO standards.
 - (b) Explain benefits by international standards to the Governments.
 - (c) What is the purpose of Business impact analysis (BIA)?

2. Answer the following :
 - (a) Explain Auditing.
 - (b) Explain different types of auditing.
 - (c) Discuss phases of ISMS audit.

3. Answer the following :
 - (a) How to mitigate threats and risks?
 - (b) What are the elements of Information Security Policy?
 - (c) What are the various techniques to improve security posture of an organization?

4. Answer the following :
 - (a) Write a note on Payment Card Industry Data Security Standard (PCI DSS).
 - (b) What are security controls?
 - (c) List some of the common pitfalls of Information Security Program.

5. Answer the following :

- (a) What is Target of Evaluation (TOE). How it is performed?
- (b) What is NIST? Explain.
- (c) What are Application Security Risks?

SECTION-B
(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Ten (10) marks each. Learners are required to answer any Four (04) questions only. (4×10=40)

1. Answer the following:
 - (a) What is a PDCA cycle.
 - (b) Explain Risk assessment process and risk treatment plan.
2. Compare NIST cyber security framework with ISO 27001.
3. Answer the following :
 - (a) What is business continuity planning (BCP) ?
 - (b) Why is BCP important ?
4. Explain SARBANES-OXLEY ACT (SOX).
5. Explain Control Objectives for Information and Related Technology(COBIT).

6. Write a short note on :
- (a) SANS (SysAdmin, Audit, Networking, and Security).
 - (b) OWASP.
7. Answer the following :
- (a) Explain Hierarchical policy scheme.
 - (b) What is SoA.
8. Answer the following :
- (a) What are the benefits of International Standards ?
 - (b) Define the term "cyberspace" as per ISO/IEC 27032.
 - (c) Discuss responsibilities of auditors in ISMS audit engagement.
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