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Roll No.

MIT (CS)-201/PGDCS-05

**Information Security Assurance: Framework,
standards and Industry best practices**

(MSCCS-18/PGDCS-17)

Examination 2021 (Winter)

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 x 20=40)

Q.1 Answer the following :

- a. Define key concepts of Information Security.
(4 marks)
- b. Describe Risk Management process. (6 marks)

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- c. Describe the onion model of defense in depth.
(5 marks)
- d. Write steps included in Incident response plan.
(5 marks)

Q.2 Answer the following :

- a. Describe different types of Disasters with appropriate example. (8 marks)
- b. What is disaster recovery plan (DRP)? (5 marks)
- c. Why DRP is important? Write its benefits.
(7 marks)

Q.3 Answer the following :

- a. What is Sarbanes-Oxley Act? (4 marks)
- b. Why SOX was born? (4 marks)
- c. Key requirements/provisions of SOX? (8 marks)
- d. What should SOX implementers do in real-time?
(4 marks)

Q.4 Explain the following terms: (4 marks each)

- a. Protection Profile
- b. Security Target
- c. Security Functional Requirements

- d. Security Assurance Requirements
- e. Evaluation Assurance Level

Q.5 Answer the following :

- a. What is ISMS? (6 marks)
- b. What are the critical factors of ISMS? (7 marks)
- c. What are the necessary requirements for the ISMS to be effective? (7 marks)

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 x 10=40)

Q.1 Answer the following :

- a. Write short note on relationship of ISO/IEC 27001 and 27002 standards. (5 marks)
- b. Explain benefits of ISO 27001 certification. (5 marks)

Q.2 Answer the following :

- a. What do you understand by ISMS internal audit? (2 marks)
- b. Discuss phases of ISMS audit. (5 marks)

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- c. Discuss some responsibilities of auditors and auditee during ISMS audit execution. (3 marks)
- Q.3 What is business continuity planning (BCP)? Why is BCP important? Write different steps to create a business continuity plan.
- Q.4 Answer the following :
 - a. What are the objectives of an IT security policy? (4 marks)
 - b. Explain Hierarchical policy scheme. (6 marks)
- Q.5 Explain PDCA cycle in details.
- Q.6 Answer the following :
 - a. Write short note on importance of international standards. (3 marks)
 - b. Explain benefits by international standards to the Governments. (3 marks)
 - c. Differentiate between ISO 27001 and ISO 27002. (4 marks)

Q.7 Answer the following :

- a. Explain ISO 27001 certification process.
(4 marks)
- b. Compare NIST cyber security framework with
ISO 27001. (6 marks)

Q.8 Answer the following :

- a. Explain FISCAM (Federal Information Systems
Control Audit Manual. (5 marks)
- b. How to make an effective Security Audit
Reporting? (5 marks)
