

Roll No.

Total No. of Questions – 7

Total No. of Printed Pages – 4

Time Allowed – 3 Hours

Maximum Marks – 100

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Answers to questions are to be given only in English except in the case of candidates who have opted for Hindi Medium. If a candidate who has not opted for Hindi Medium, his/her answers in Hindi will not be valued.

Question No. 1 is compulsory.

Candidates are also required to answer any **five** questions from the remaining **six** questions.

Marks

1. The XYZ Company is marketing several household consumable products. It has several branches throughout the country, which are well-connected with internet and intranet. Based on the reports and feedbacks, the company understands that the present system is not able to meet the requirements of its IS stakeholders. Hence, it wants to improve its IS performance and availability of services, to minimize its loss in terms of revenue loss, loss of reputation and to improve the customer satisfaction. It has felt the need for having reengineered business processes and implementing BCM for assessing the potential threats and managing the consequences. It wants to ensure to provide all users with a secure Information Processing environment. Further it wants to provide continuous assurance about the quality of data by employing continuous auditing technique SCARF. Hence, it engages a highly professional System Development Team to study the present system for designing and implementing a new system. The team follows and takes advantages of SDLC methods.

**4×5
= 20**

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P.T.O.

Read the above carefully and being a member of the team, answer the following :

- (a) Briefly discuss the steps that involved in Business Process Design.
 - (b) Discuss the means for achieving Network Access Controls.
 - (c) Discuss :
 - (i) as to how an enterprise uses Training Process as a tool to initiate a culture of BCM in all the stakeholders and
 - (ii) what supports are needed for the development of a BCM culture.
 - (d) Discuss the types of information that can be collected by SCARF.
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2. (a) An important task for the auditor as a part of the preliminary evaluation is to gain a good understanding of the technology environment and related control issues. As the company auditor which aspects you will include in your consideration to understand the technology ? 6
- (b) What are the goals and metrics that can be used to measure specific success of a GRC program using COBIT 5 ? 6
- (c) What are the benefits of mobile computing ? 4
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3. (a) In spite of having various controls as well as counter measures in place, cyber frauds are happening and increasing on a continuous basis. Discuss any six types of Cyber Frauds. 6
- (b) Write the objectives of Information Technology Act, 2000. 6
- (c) Describe any four ways in which system maintenance can be categorized. 4

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| 4. | (a) How does Information Technology Act, 2000 define the term Electronic Signature ? State under what conditions any electronic Signature or Electronic Authentication technique shall be considered reliable as per Section 3A of Information Technology Act, 2000. | 6 |
| | (b) Discuss the key management practices that are required for aligning IT strategy with Enterprise strategy. | 6 |
| | (c) What are the important characteristics of Computer Based Information System (CBIS) ? | 4 |
| 5. | (a) State and explain any six key management practices for assessing and evaluating the System of Internal Controls in an enterprise. | 6 |
| | (b) In the System Development phase, application programs are written, tested and documented. What are the characteristics required for a good coded application software ? | 6 |
| | (c) List any two advantages of each : [i] Private Cloud and [ii] Public Cloud. | 4 |
| 6. | (a) What are the factors influencing an organization towards control and audit of computers and the impact of the information systems ? | 6 |
| | (b) A company uses a third party site for backup and recovery purposes after having a written contract. Being a security administrator, you must ensure that the contract covers the security issues. List down the issues to be covered. | 6 |
| | (c) What is asynchronous attack ? Explain Subversive threats to an Information System. | 4 |

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7. Write short notes on any **four** of the following :

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=16

- (a) Benefits of Expert System
 - (b) Inherent limitations of IS Audit
 - (c) Advantages of BYOD
 - (d) Role of IS Auditor in Physical Access Control
 - (e) Limitations of MIS
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