

Roll No.

Total No. of Questions – 7

Total No. of Printed Pages – 4

Time Allowed – 3 Hours

Maximum Marks – 100

BTQ

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, answer in Hindi, 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.

In case, any candidate answers extra question(s)/sub-question(s) over and above the required number, then only the requisite number of questions first answered in the answer book shall be valued and subsequent extra question(s) answered shall be ignored.

Marks

1. ABC Corporation desires to implement an Expert System to manage suspicious transactions, financial forecast, etc. in order to facilitate informed decision making, by various stake holders of the corporation. You have been appointed as IT manager to setup domain-specific and high quality knowledge based system and to enhance internal controls to maintain data integrity and security. Moreover, to help managers in making better decisions, the company decided to develop and implement Information System following System Development Life Cycle (SDLC) approach of system development. The top management of the Corporation is seeking your views on the following issues to be explained in brief :
**4×5
=20**

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BTQ**Marks**

- (a) Some of the business application areas of Expert System.
- (b) Knowledge areas required by a business manager to operate Information System in effective and efficient manner.
- (c) Interrelated components of internal controls as per COSO (Committee of Sponsoring Organization)
- (d) Various evaluation methods in post implementation review in respect to user satisfaction with the Information System.
2. (a) You have been appointed as the IS Auditor of a Company. Can you please explain the different steps involved in the conduct of your Information System Audit. **6**
- (b) What are the ways in which remote and distributed data processing applications can be controlled in relation to issues and revelations related to logical access ? **6**
- (c) As an IS Auditor, what are the key areas you would verify during review of BCM arrangement of an Enterprise ? Write any four. **4**
3. (a) What are the benefits of COBIT 5 ? **6**
- (b) Integrated Test Facility (ITF) is one of the continuous audit tool. Explain how ITF is used in continuous audit by an auditor. **6**
- (c) Describe the provision related to 'Compensation for failure to protect data' under Section 43A and 'Penalty for failure to furnish information return, etc.' under Section 44 of the Information Technology Act, 2000. **4**

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| 4. | (a) | What are the key management practices to implement risk management ? | 6 |
| | (b) | Briefly describe the audit issues relating to operational layer with respect to the application security control auditing. | 6 |
| | (c) | State the advantages and disadvantages of Full Backup type. | 4 |
| | | | |
| 5. | (a) | What are the major data integrity policies followed by an organization ? | 6 |
| | (b) | What is Mobile Computing ? Describe the main components of mobile computing technology. | 6 |
| | (c) | List out the valid consideration for acquisition of both hardware and software when Request For Proposal is called from vendors. | 4 |
| | | | |
| 6. | (a) | Which aspects of environmental controls should be physically inspected by an information system auditor, while auditing environmental controls ? Write any six. | 6 |
| | (b) | As an IT consultant, your client is seeking your advice whether to go for ISO 27001. Explain the reasons for which company may adopt ISO 27001. | 6 |
| | (c) | What are the objectives of performing BCP tests ? | 4 |

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(4)

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Marks

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

**4×4
=16**

- (a) Misconceptions about MIS
 - (b) Characteristics of Public Cloud
 - (c) Trojan Horse
 - (d) Metrics of Risk Management
 - (e) Types of System Testing
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