

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 Language 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.

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. XYZ Appliances Ltd., is a popular marketing company, which has branches in many locations. It does all its business activities on-line such as exchanging information relating to the buying and selling of goods, distribution information and providing customer support. With the increase in business activities and increase in regulations, the company is facing several problems with its existing information system. It realizes that the existing Information System has to be improved and proper controls have to be incorporated. It wishes to enhance the existing Information System and put in sufficient measures to ensure security of data and protect the company against breaches caused by security failures. The company has decided to use a third party site for backup and recovery procedures. To develop the new system the company formed a full-fledged System Development team. The team followed all the phases in the SDLC and implemented the new system successfully.

**5×4
=20**

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P.T.O.

(2)

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The company was also satisfied with the post-implementation audit report.

Answer the following questions based on the above :

- (a) As a system development team member, explain the areas that should be studied in depth to understand the present system.
 - (b) Discuss the activities that deal with the Systems Development Management Controls in the IT set-up.
 - (c) What are the issues that the security administrators should consider when drafting the contract with a third party for a backup and recovery site ?
 - (d) As an IS auditor how do you evaluate the performance of the following Managerial Controls: [i] Data Resource Management Controls and [ii] Security Management Controls.
2. (a) What are the key management practices to be implemented for evaluating Business Value from the use of IT ? State any **three** key metrics which can be used for such evaluation. **6+6**
+4
- (b) State any six objectives of the National Cyber Security Policy 2013 issued by the Government of India.
- (c) Briefly explain any four features of Electronic mail.
3. (a) Based on the Institute of Internal Auditors (IIA) guidance, briefly explain any six sample areas which can be reviewed by Internal Auditors as part of the review of GRC. **6+6**
+4
- (b) List the components of the Information Security Policy.
- (c) What is meant by the Core Banking System (CBS) ? List its elements.

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4. (a) While developing a Business Continuity Plan what are the key tasks that should be covered in the second phase 'Vulnerability Assessment and General definition of Requirement' ? **6+6
+4**
- (b) What is the definition of the following terms in the Information Technology Act ? [i] Computer resource, [ii] Digital signature, [iii] Electronic record, [iv] Private key, [v] Public key and [vi] Secure System.
- (c) What are the key steps to be followed in a risk based approach to make an audit plan ?
5. (a) How can Audit Trails be used to support security objectives ? Briefly explain. **6+6
+4**
- (b) With respect to Top Management and in IS management control, the major activities that the senior management must perform are: Planning, Organising, Leading and Controlling in the Information System functions. Explain the role of the IS auditor in any three of the above mentioned activities.
- (c) What is BCP ? What are the three areas it should cover ?
6. (a) What does RAD refer to ? Briefly explain any five features of RAD. **6+6
+4**
- (b) What are the various types of application controls ? Explain each control with reference to their performance and the reliability.
- (c) Briefly explain the various Output Controls.

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(4)

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

4×4

=16

- (a) Components in COBIT
 - (b) Constraints in operating MIS
 - (c) Fact finding tools and techniques
 - (d) The services provided by the SaaS model of Cloud Computing
 - (e) Back-end architecture of cloud computing
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