# PAPER 6: INFORMATION SYSTEMS CONTROL & AUDIT

## Important questions for June 2014

## Disclaimer

- **The questions marked are purely predicted based on examination trends.**
- **The team involving drafting of the below questions does not have any access to Board of Studies, examination boards, committees or any other body of ICAI.**
- **Students are advised to use this as a supplementary study material, and not as the ONLY material for exams.**
- **The team does not bear any responsibility for appearance or non-appearance of the below marked questions.**

# ☺ THESE ARE PROBABLES, NOT ACTUALS !!

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| **CHAPTER 1** | **INFORMATION SYSTEMS CONCEPTS**<br><br>1. What is Information ? What are its characteristics ?<br>2. What are the factors on which information requirements depend.<br>3. Types of Information & different management levels.<br>4. Describe the pre-requisites of an effective MIS.<br>5. Usage of computers in a MIS<br>6. Constraints & Limitations of MIS<br>7. What is DSS, its characteristics & its components ?<br>8. Characteristics of an EIS<br>9. What is ES, its characteristics & its components ?<br>10. Short note on: CBIS; Operations Support Systems ; Decomposition<br>11. Distinguish between - Open Vs Closed, Probabilistic Vs Deterministic |
| **CHAPTER 2** | **SYSTEMS DEVELOPMENT LIFE CYCLE METHODOLOGY**<br><br>1. Reasons for failure of Systems Development<br>2. Cost Benefit Analysis in Preliminary Investigation<br>3. What are the various fact finding techniques used in system analysis.<br>4. Present System Analysis<br>5. What are system development tools.<br>6. Describe the Vendor Evaluation Criterion in selection of a system, along with techniques<br>7. Conversion Strategies<br>8. Post Implementation Review & types of Systems Maintenance<br>9. Different Roles in SDLC<br>10. Short notes :<br>System Development approaches : Incremental; Spiral; RAD; Prototype<br>Data Dictionary, Flow Chart & DFD – with examples<br>SRS (Systems Requirements Specifications); Operations Manual. |

**CA Ganesh Kumar B N** B.Com., ACA, CS, CISA (USA)
ca.ganeshbn@gmail.com
Ph : 09972 317521

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| **CHAPTER 3** | **CONTROL OBJECTIVES**<br><br>1. Effects of Computers on IS Audit & Internal Controls<br>2. Functions, Roles & Responsibility of an IS Auditor.<br>3. Steps in IS Audit.<br>4. Categories of Controls (in Brief – different categories and its components)<br>5. Organisation Controls & Financial Control Techniques<br>6. Audit Trail Objectives.<br>7. Input Controls & Processing Controls<br>8. Systems & Program Change Controls<br>9. Encryption, Cryptography, PKI<br>10. Firewall and its types<br>11. Various Technical Exposures, Asynchronous attack Techniques and Computer Crime exposures.<br>12. Virus, Anti-Virus and types of Anti-Virus software.<br>13. Physical Controls measures; Identification, Authentication & Authorisation<br>14. Controls for Environmental exposures |
| **CHAPTER 4** | **TESTING - GENERAL & AUTOMATED CONTROLS**<br><br>1. Various Phases of IS Control Audit: Planning, Testing & Reporting<br>2. Discuss components that an auditor must document during the testing phase<br>3. What are the different levels of test plans?<br>4. Audit Tools & Continues Audit Techniques (along with its advantages, disadvantages & objectives)<br>5. LAN Review<br>6. Short Notes : Appropriateness of Control Tests |
| **CHAPTER 5** | **RISK ASSESSMENT METHODOLOGIES AND APPLICATIONS**<br><br>1. Define terms - risk, threat, vulnerability, attack, exposure and Residual Risk ?<br>2. Risk Management Process (along with diagram)<br>3. How Risk Assessment performed ? (steps involved/ areas of focus)<br>4. Risk Evaluation Techniques<br>5. What are the different Risk Strategies ?<br>6. Insurance – types and areas of coverage (also in chapter 6)<br>7. Threats to Computer environment<br>8. Threats due to cyber crimes |

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ca.ganeshbn@gmail.com
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| **CHAPTER 6** | **BUSINESS CONTINUITY PLANNING & DISASTER RECOVERY PLANNING**<br><br>1. What is BCP & what are Objectives<br>2. What are the various phases of developing a business continuity plan?<br>3. What are the control measures that are to be installed to minimize threats, risks and exposures in a computer system ?<br>4. Describe various Backup techniques.<br>5. Describe various alternate site facilities & reciprocal agreements.<br>6. What is the importance of back-up redundancy?<br>7. Describe the various types of disaster recovery testing? Describe the testing procedure?<br>8. Audit tools techniques in BCP & DRP testing<br>9. Short note on<br>a. Single point failure<br>b. BIA |
| **CHAPTER 7** | **AN OVERVIEW OF ERP**<br><br>1. What is an ERP. Enumerate its characteristics.<br>2. What are the various benefits are an ERP. Also enumerate its features.<br>3. Why Companies undertake ERP and what are the myths about ERP.<br>4. What are the steps involved in implementation of an ERP<br>5. Write a note on Business Process Re-engineering.<br>6. Write short note on Post implementation review.<br>7. Risk & Governance in Implementation of an ERP<br>8. List a few ERP Packages and list the ERP evaluation criteria<br>9. Important modules in SAP:<br>a. Treasury Management<br>b. Cost Control<br>c. Material Management |
| **CHAPTER 8** | **IS AUDITING STANDARDS , GUIDELINES, BEST PRACTICES**<br>Short Notes on<br>1. ISO 27001: Areas of Focus : ISMS<br>2. CMM & levels<br>3. COBIT : Benefits; Enablers; categories; principles<br>4. HIPAA – Safeguards |

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| **CHAPTER 9** | **DRAFTING OF IS SECURITY POLICY, AUDIT POLICY, IS AUDIT REPORTING**<br><br>1. **What are the objectives of information security? How does an information security policy help in achieving those objectives?**<br>2. **What are the basic types of Information Protection system ?**<br>3. **Access control in Information Security**<br>4. **What role is Information Systems Audit policy expected to play in ensuring information security? What are the objectives of IS Audit?**<br>5. **IS Audit Plan**<br>6. **IS Audit report** |
| **CHAPTER 10** | **INFORMATION TECHNOLOGY ACT**<br><br>1. **Definitions**<br>2. **Electronic signature**<br>3. **Chapter IV – Time, place and receipt of records**<br>4. **Penal Provisions**<br>5. **Power of Central and State Govt; Certifying Authorities**<br>6. **Liability of Companies**<br>7. **Cyber Appellate Tribunal**<br><br>**Important Sections:**<br>**10, 30, 58, 85, 89,** |

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**CA Ganesh Kumar B N** B.Com., ACA, CS, CISA (USA)
ca.ganeshbn@gmail.com
**Ph : 09972 317521**