

Enrollment No.....



Faculty of Engineering  
End Sem Examination Dec-2023

OE00079 IT Governance, Risks & Information Security  
Management

Programme: B.Tech.

Branch/Specialisation: All

**Duration: 3 Hrs.****Maximum Marks: 60**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1 i. What is the mechanism through which IT governance affects firm performance? **1**
- (a) IT governance impacts IT-Business alignment and IT Business alignment impacts firm performance
- (b) IT Business alignment influences IT governance and IT governance influences firm performance
- (c) IT Business alignment influences firm performance and firm performance influences IT governance
- (d) None of these
- ii. What is a key managerial IT governance decision? **1**
- (a) IT infrastructure strategy (b) IT architecture
- (c) IT principle (d) None of these
- iii. If a company competes on the basis of differentiation, then the CIO should ideally report to the \_\_\_\_\_. **1**
- (a) CEO (b) CFO (c) COO (d) None of these
- iv. IT Strategy Committee- **1**
- (a) Provide insight and advice to the board on topics
- (b) Focuses on current and future strategic IT issues
- (c) Board members and specialist non-board members
- (d) All of these
- v. Strategic Management Information System can be used to create new \_\_\_\_\_ by using knowledge tools. **1**
- (a) Business opportunities (b) Financial opportunities
- (c) Market opportunities (d) All of these

- [2]
- vi. Strategic planning is done by which level of management? **1**  
 (a) Floor level management (b) Middle level management  
 (c) Top level management (d) Both (a) & (b)
- vii. Risk Management- **1**  
 (a) Risk management is the process of managing both downside risks and business risks  
 (b) It can be defined as the culture, structures and processes that are focused on achieving possible opportunities yet at the same time control unwanted results  
 (c) Both (a) & (b)  
 (d) None of these
- viii. Companies and other entities might appoint one or more risk managers. The role of a risk manager might therefore include- **1**  
 (a) Helping with the identification of risks  
 (b) Establishing 'tools' to help with the identification of risks  
 (c) Establishing modeling methods for the assessment and measurement of risks  
 (d) All of these
- ix. COBIT 5 framework comes under which of the following categories? **1**  
 (a) Architecture (b) IT service management  
 (c) Governance (d) HR management
- x. The key components of an information systems security policy include- **1**  
 (a) Management support and commitment  
 (b) Access Authorization  
 (c) Security Awareness  
 (d) All of these
- Q.2 i. Define IT governance. **2**  
 ii. Explain the main focus area of IT governance. **3**  
 iii. Explain the roles of governance in information security. **5**  
 OR iv. Explain "Governance arrangement matrix" in detail with a diagram. **5**
- Q.3 Attempt any two:  
 i. Explain IT strategy committee and security steering committee in detail with suitable diagrams. **5**  
 ii. What is an IT balanced scorecard? Explain its four key perspective indicators (PKIs). **5**

- [3]
- iii. What is Val-IT framework? Explain Val IT framework on following basis: **5**  
 (a) Value governance  
 (b) Portfolio management  
 (c) Investment management
- Q.4 i. What are the benefits of strategic planning? (Any four) **4**  
 ii. What are six phases or steps for an IT security metrics program? **6**  
 Explain with a suitable diagram.
- OR iii. What is the strategic planning process? Explain what are the steps of the strategic planning process. **6**
- Q.5 Attempt any two:  
 i. How to achieve the risk based security strategy? Explain with at least three key steps. **5**  
 ii. Explain the risk management process with its essential steps. **5**  
 iii. Write any five cons of the Risk-IT framework of ISACA. **5**
- Q.6 Attempt any two:  
 i. Explain the insource and outsource in detail. Also write the comparison of insource and outsource. **5**  
 ii. Explain the goals and principles of the COBIT framework. **5**  
 iii. What do you mean by information security management? Also write the components of information security management. **5**

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**Marking Scheme**  
**IT Governance, Risks and Information security management-**  
**OE00079(T)**

Q.1	i)	a) IT governance impacts IT-Business alignment ,and IT Business alignment impacts firm performance.	1
	ii)	c) IT principle	1
	iii)	a) CEO	1
	iv)	d) All of the above	1
	v)	d) All of the above mentioned	1
	vi)	c) Top level management	1
	vii)	c) Both A&B	1
	viii)	d) All of the above	1
	ix)	c) Governance	1
	x)	d) All of the above	1
Q.2	i.	Define IT governance.	2-Marks 2
	ii.	Main ..... governance with explanation	(1 Mark*3) 3
	iii.	Roles of governance in information security.	(1 Mark*5) 5
OR	iv.	Diagram and its explanation	4 Marks 5
Q.3	i.	Steering committee in detail.	3-Marks 5
		Suitable diagrams.	2-Marks
	ii.	What is an IT balanced scorecard	1-Marks 5
		Four key ..... indicators(PKIs)	4-Marks
OR	iii.	Definition)	2-Marks 5
		i) Value Governance.	1 Mark
		ii) Portfolio management.	1 Mark
		iii) Investment management.	1 Mark
Q.4	i.	(Write only points heading)	1 Marks 4
		Explain each point in detail.	3 Marks
	ii.	Six phases ..... metrics program	2 Marks 6
		Explain with a suitable diagram.	4 Marks
OR	iii.	strategic planning process? (Definition)	2 Marks 6

		Steps of the strategic planning process.	4-Marks	
Q.5	i.	Risk based security strategy	2 Marks	5
		Explain with at least three key steps.	3 Marks	
	ii.	Explain the risk management process.	1 Marks	5
		Explain essential steps.	4 Marks	
OR	iii.	Five cons..... ISACA.	(1 Mark*5)	5
Q.6		<b>Attempt any two:</b>		
	i.	Insourc definition.	1 Mark	5
		Outsource definition.	1 Mark	
		Comparison(three points)	3 Marks	
	ii.	Explain the goals.	2.5 Marks	5
		Principles of the COBIT framework.	2.5 Marks	
	iii.	Information security management	2 Marks	5
		Components ..... management.	3 Marks	

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