

# INSTITUTE OF COST AND MANAGEMENT ACCOUNTANTS OF PAKISTAN



## Spring (Summer) 2010 Examinations

Thursday, the 20th May 2010

### INFORMATION SYSTEMS & I.T. AUDIT – (S-602)

#### STAGE-6

Time Allowed – 2 Hours 45 Minutes

Maximum Marks – 56

- (i) Attempt ALL questions.
- (ii) Answers must be neat, relevant and brief.
- (iii) In marking the question paper, the examiners take into account clarity of exposition, logic of arguments, presentation and language.
- (iv) Read the instructions printed inside the top cover of answer script CAREFULLY before attempting the paper.
- (v) DO NOT write your Name, Reg. No. or Roll No. anywhere inside the answer script.
- (vi) There will also be a computer based practical examination of 10 marks and presentation of a project of 20 marks, which form the part of this paper.
- (vii) Question No.1 – “Multiple Choice Question” printed separately, is an integral part of this question paper.

SECTION – “A”		MARKS
<b>Q.2 (a)</b>	Customers think about product performance in terms of variety of performance variables. Identify product performance variables that can be used to evaluate any stage in customer experience. Also illustrate typical performance measures for each variable and common ways information systems are used to improve the product.	<b>07</b>
<b>(b)</b>	Neural network is an offshoot of artificial Intelligence. It is an attempt to model human brain.	
<b>(i)</b>	Explain the term ‘neural network’.	<b>02</b>
<b>(ii)</b>	How does it operate? Explain the procedure.	<b>03</b>
<b>(iii)</b>	Give any two real-life examples where neural network is applied.	<b>02</b>
<b>Q.3 (a)</b>	ABC Corporation has its office in a multistoried building. Its various departments are spread over different floors in the same building. The physical security of the IT infrastructure like computers, peripherals, and network devices is up to the mark; however, the CTO is concerned about “controlling access to data.” Assume that CTO of the company has hired you to address this issue. Prepare an account of ‘control techniques’ including manual data handling, access privilege, and data flow through networks and other media.	<b>07</b>
<b>(b)</b>	Electronic commerce (e-commerce), is one of the most popular e-business implementations. What do you understand by e-commerce models? Discuss.	<b>07</b>

#### SECTION – “B”

- Q.4 (a)** After developing an audit program and gathering audit evidence, the next step is the evaluation of the information gathered in order to develop an audit opinion. This requires the IS auditor to consider a series of strengths and weaknesses and then develop audit recommendations.
- (i)** How can an IS auditor assess the strengths and weaknesses of the evidence gathered? **03**
  - (ii)** How can a control matrix be employed in this regard? **03**

PTO

**MARKS**

- (iii) What critical role the concept of materiality can play in shifting relevant information for audit report? **03**
- (b) Today, telecommunication networks are the key to business processes in both large and small organizations. However, organizations often do not give due priority to them as data centers. What are the telecommunication network disaster recovery methods and how can we protect a network by using these methods? **05**
- Q.5 (a)** Generally, each IT platform that runs an application, supporting a critical business function needs a recovery strategy. Discuss different alternative strategies in terms of cost and relevant level of risk. **07**
- (b) "System maintenance practices refer primarily to the process of managing change to application systems while maintaining the integrity of both the production source and executable code." In the light of this statement answer the following questions:
- (i) Describe change management process. **03**
- (ii) How changes are deployed? **02**
- (iii) Why system documentation is important in change management process? **02**

**THE END**