THE INSTITUTE OF CHARTERED ACCOUNTANTS OF PAKISTAN

Intermediate Examinations   Spring 2009

March 9, 2009

INFORMATION TECHNOLOGY
Module D

(Marks 60)
(1 hour 45 minutes)

Q.1 Emerald Distributors Limited (EDL) is the authorized distributor of various fast moving consumer goods. There are three Local Area Networks (LANs) within EDL's head office and a number of small LANs at its branches. However, they are not interconnected. To enhance the business efficiency, the management has decided to connect its information systems with its business partners. As the IT manager of the company you have requested the finance department to allocate required funds for establishing intranet and extranet. However, the finance manager is of the view that the management's objective can be achieved easily through the use of Internet.

Explain intranet and extranet and comment on the views of the finance manager. **(07)**

Q.2 In present era of networking, sending and receiving data to far off places has become efficient and economical. Whether we connect to the Internet using a dial up connection, create a small local area network or create a wide area network, some typical network hardware is essentially required. These include repeaters, hub, bridge, router etc.

Explain the basic functions of each of the above mentioned hardware. **(08)**

Q.3 Phi Limited Company (PLC) has recently implemented a sales and inventory management system at its warehouse. PLC supplies goods on cash as well as on credit. Credit is only allowed to those customers who have made at least one cash transaction with the company. The credit limit for A and B category customers is Rs. 1.0 million and Rs. 0.5 million respectively. It allows a discount of 5% on all orders exceeding Rs. 0.25 million.

You are required to list the following:
(a) data to be input at the time of booking/recording customers' orders.
(b) types of processing which may be carried out by the system.
(c) output that may be produced by the system. **(08)**

Q.4 The management of your company wants to create general awareness about computer viruses among the employees. You are required to briefly explain:
(a) Virus, Worm and Trojan horse. **(04)**
(b) any six preventive controls which may be placed to mitigate the risk of such threats. **(03)**

Q.5 A mobile phone operator is running a promotional campaign. According to the scheme a customer who makes calls worth Rs. 1,000 in any calendar month, is allowed 50% discount on all subsequent calls made to its own network, during that month.

Construct a decision table depicting the functioning of such a program. **(08)**

Q.6   Explain six main stages of System Development Life Cycle (SDLC).   **(09)**

Q.7   You are required to gather information on financial meltdown from the web. Briefly explain what results would you get when you enter the following on the Internet search engine:
(a)   Financial Meltdown
(b)   "Financial Meltdown"
(c)   Financial AND Meltdown
(d)   Financial OR Meltdown
(e)   Financial NOT Meltdown   **(05)**

Q.8   Mehak Enterprises (ME) has outsourced the development of its inventory management software. Users with different profile and access rights would use this software. Most of the users would only have the rights for entering the data related to receipts and issuance of goods. Only three persons would be nominated to authorize the transactions. Being ME's internal auditor, you are conducting a pre–implementation review of its logical access controls.

Identify at least four controls which you would look for, to assess the adequacy of the logical access controls. Specify the risk associated in case the specified control is not implemented.   **(08)**

(THE END)