THE INSTITUTE OF CHARTERED ACCOUNTANTS OF PAKISTAN

Intermediate Examinations   Autumn 2009

September 14, 2009

INFORMATION TECHNOLOGY
Module D

(MARKS 60)
(1 hour 45 minutes)

Q.1 Modern Pharmaceuticals Limited (MPL) is a large organization with country wide presence. It is considering to replace its centralized system with distributed processing system. In order to create awareness among the senior executives of the company about distributed processing system, you have been asked by the management to give a presentation on:

   (a) Distributed Processing System and its important characteristics. **(07)**

   (b) Risks and challenges in adopting distributed processing approach. **(04)**

Q.2 Your company is planning to launch an interactive website. In the initial stages, various options have been discussed. The final proposal is now being drafted and you are required to write a note for inclusion therein, consisting of the following:

   (a) Explanation of website hosting and types of services usually provided by web hosting companies. **(04)**

   (b) Brief explanation of the following types of web hosting:
     (i)   Shared Web Hosting
     (ii)   Virtual Dedicated Server
     (iii)   Dedicated Hosting
     (iv)   Co-location Web Hosting **(06)**

Q.3 Unique Enterprises is a large scale manufacturer of mobile parts and accessories. It has acquired a new ERP to integrate different departments. It is also planning to connect with its customers and suppliers through extranet. Consequently the management is reassessing its alternative processing facilities.

   (a) Compare the respective merits and demerits of having own alternative processing site or engaging a third party service provider. **(06)**

   (b) Differentiate between a hot site, cold site and a warm site. Which type of facility would you prefer in the above situation and why? **(06)**

Q.4 World Technologies is in the process of implementing electronic physical access controls. The IT department has identified the following options:
     ▪ Password
     ▪ Access cards / tokens
     ▪ Bio-metric system

You are required to write a note giving brief comparison of the above with respect to ease of use and level of security. **(06)**

Q.5 In view of certain threats identified during the information systems audit of Customers Bank Limited (CBL), the auditors have recommended the use of Public Key Infrastructure (PKI).

You are required to write a note to the management explaining the functioning of PKI. **(05)**

Q.6 Sirzameen Bank Limited (SML) has launched a promotion for its credit card customers. According to the promotion, the customers will receive a gift voucher worth Rs. 500 with their monthly bill if they spend Rs. 15,000 more than their last month spending and their last month bill is not less than Rs. 10,000.

Draw a flow chart showing the above process. **(05)**

Q.7 (a) In a networking environment, what do you understand by "Protocol" and "Communication Protocol"? **(02)**

(b) Write brief notes describing the salient features of each of the following:
(i) Transmission Control Protocol / Internet Protocol **(TCP/IP)** **(03)**
(ii) Open Systems Interconnection Protocol **(OSI)** **(03)**
(iii) Wireless Application Protocol **(WAP)** **(03)**

(THE END)