

THE PUBLIC ACCOUNTANTS EXAMINATIONS BOARD

A Committee of the Council of ICPAU

CPA (U) EXAMINATIONS

LEVEL ONE

INFORMATION TECHNOLOGY – PAPER 5 (I)

THURSDAY, 15 DECEMBER 2005

INSTRUCTIONS TO CANDIDATES

1. Time allowed: **2 hours 30 minutes**.
2. Attempt **all** questions in Section **A** and any **three** questions from Section **B**.
3. Section A has **ten** compulsory multiple-choice questions each carrying 1½ marks.
4. Section B has **five** questions and only **three** questions are to be attempted. Each question carries 15 marks.
5. Please read further instructions on the answer book.

SECTION A

Question 1

- (i) One of the distinctions between a database and a file is that:
 - (a) Databases hold only numerals.
 - (b) Database records are quicker to access than file records.
 - (c) Databases are designed by experts.
 - (d) Databases have minimal redundancy.
- (ii) Which of the following components is not part of the central processing unit?
 - (a) Hard Disk.
 - (b) Logic Unit.
 - (c) Primary Memory.
 - (d) Control Unit.
- (iii) Which of the following is a main function of computer networks?
 - (a) Resource sharing.
 - (b) Internet access.
 - (c) Cost reduction.
 - (d) Data security.
- (iv) Computer systems can be protected from virus attacks through:
 - (a) Installing an operating system.
 - (b) Using CDs.
 - (c) Identity cards.
 - (d) Using firewalls.
- (v) Tactical information systems are often associated with:
 - (a) Transactions support.
 - (b) Middle management.
 - (c) Top management.
 - (d) Executive systems.
- (vi) Which of the following is a full proof security measure for a networked computer?
 - (a) Use of an up to date computer anti virus software.
 - (b) Restricting strangers.
 - (c) Removing the computer from the network.
 - (d) Creating difficult to guess pass words.

- (vii) Which of the following is both an input and output device?
- (a) Keyboard.
 - (b) Mouse.
 - (c) Monitor.
 - (d) Touch screen.
- (viii) The following are examples of computer peripherals except:
- (a) Processor.
 - (b) Printers.
 - (c) Scanners.
 - (d) Plotter.
- (ix) Which of the following is not an example of command based user interface software?
- (a) Windows.
 - (b) DOS.
 - (c) Linux.
 - (d) Os2.
- (x) Hypertext mark up language is used to:
- (a) Translate internet material from English to other languages.
 - (b) Highlight internet links.
 - (c) Create web pages.
 - (d) Store intranets.

SECTION B

Question 2

- (a) Distinguish between an operating system and a data base management system. **(3 marks)**
- (b) Explain the functions of:
- (i) An operating system. **(6 marks)**
 - (ii) A Database management system **(6 marks)**
- (Total 15 marks)**

Question 3

- (a) Explain the following:
- (i) Data security. **(1.5 marks)**
 - (ii) Computer Security. **(1.5 marks)**
- (b) Explain how business organisations may ensure electronic data security. **(12 marks)**
- (Total 15 marks)**

Question 4

Global Business Centre is interested in building a state of the art modern electronic office. You have been approached to explain the various types of networks, benefits and dangers associated with electronic networking.

- (a) Using your knowledge of information technology, explain the following network terms:
- (i) LAN. (1.5 marks)
 - (ii) MAN. (1.5 marks)
 - (iii) WAN. (1.5 marks)
 - (iv) Internet. (1.5 marks)
 - (v) Intranet. (1.5 marks)
- (b) Give three advantages and two disadvantages that Global Business Centre would derive from adopting an electronically networked business office.

(7.5 marks)
(Total 15 marks)

Question 5

- (a) Discuss the desirable characteristics of a good electronic database? (7.5 marks)
- (b) Explain the considerations you would make in choosing the type of storage medium for an electronic database?

(7.5 marks)
(Total 15 marks)

Question 6

Hemkop is a leading chain store in Uganda. The company is interested in changing its business system so as to fit into the new electronic global business market and attract high consumption trendy customers in Uganda and abroad.

- (a) Explain the problems that Hemkop is likely to encounter in changing its business system. (7.5 marks)
- (b) How could the challenges be minimised?

(7.5 marks)
(Total 15 marks)