

THE PUBLIC ACCOUNTANTS EXAMINATIONS BOARD

A Committee of the Council of ICPAU

ATC(U) EXAMINATIONS

LEVEL TWO

INFORMATION SYSTEMS – PAPER 8

THURSDAY, 29 NOVEMBER 2012

INSTRUCTIONS TO CANDIDATES

1. Time allowed: **3 hours 15 minutes**.

The first 15 minutes of this examination have been designated for reading time. You may not start to write your answer during this time.

2. This examination contains Sections **A** and **B**.
3. Section **A** is bound separately from Section **B**.
4. Attempt all the 20 multiple-choice questions in Section **A**. Each question carries 1 mark.
5. Attempt **four** out of the **six** questions in Section **B**. Each question carries 20 marks.
6. Write your answer to each question on a fresh page in your answer booklet.
7. Please, read further instructions on the answer booklet, before attempting any question.

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SECTION B

Attempt four of the six questions in this section.

Question 2

(a) What do you understand by the following computer terms?

- (i) Multiprogramming.
- (ii) Mouse.
- (iii) Printer.
- (iv) Image scanner.
- (v) RAM.
- (vi) Distributed computing.
- (vii) Bandwidth.
- (viii) Client/server computing.
- (ix) Device driver.
- (x) Computer security.

(20 marks)

Question 3

(a) Define the term 'information system'.

(2 marks)

(b) Explain the different elements of an information system.

(12 marks)

(c) Explain, with examples, the standard office applications of information and communication technology in business today.

(6 marks)

(Total 20 marks)

Question 4

(a) Outline, with examples, some of the factors that affect information systems projects.

(3 marks)

(b) Explain some of the advantages of using the World Wide Web.

(8 marks)

(c) Explain the characteristics of the following information systems:

- (i) Transaction processing system.
- (ii) Management information system.
- (iii) Expert system.

(9 marks)

(Total 20 marks)

Question 5

(a) Identify any **three** types of computer networks that can be set up by an organization.

(3 marks)

(b) Outline the common basic technologies for storing binary information.

(3 marks)

(c) Identify the **three** major components of the central processing unit.

(3 marks)

(d) Input into a computer can be supplied from a variety of sources. Name any **three** of such sources.

(3 marks)

(e) Explain four major sources of danger to computers and information.

(8 marks)

(Total 20 marks)

Question 6

(a) Explain the differences between analog and digital devices and give examples of each of them.

(4 marks)

(b) Identify the computer hardware components that make up a computer system.

(5 marks)

(c) (i) What is meant by the term 'rebooting a computer'?

(2 marks)

(ii) Describe the steps you would go through to start a computer and to shut it down.

(9 marks)

(Total 20 marks)

Question 7

- (a) (i) What do you understand by the term 'computer virus'? **(2 marks)**
- (ii) Identify **one** operating system which is not affected by computer viruses. **(1 mark)**
- (iii) Explain how viruses can be eliminated from a computer system. **(3 marks)**
- (b) Describe the factors necessary for a computer to continue functioning normally during and after the warranty period. **(10 marks)**
- (c) Differentiate between the following:
- (i) Icon and file. **(2 marks)**
- (ii) Desktop computer and laptop computer. **(2 marks)**
- (Total 20 marks)**