

# THE PUBLIC ACCOUNTANTS EXAMINATIONS BOARD

*A Committee of the Council of ICPAU*

## ATC(U) EXAMINATIONS

### LEVEL TWO

#### INFORMATION SYSTEMS – PAPER 8

**FRIDAY, 7 JUNE 2013**

#### 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.

## SECTION B

*Attempt four of the six questions in this section.*

### Question 2

- (a) Give brief descriptions of each of the following, in relation to information technology:
- (i) Machine language. (2 marks)
  - (ii) Cyber security. (2 marks)
  - (iii) Software portability. (2 marks)
  - (iv) Computer peripheral. (2 marks)
  - (v) Storage device. (2 marks)
- (b) Distinguish between the following terms:
- (i) Data and information. (2 marks)
  - (ii) RAM and ROM. (2 marks)
  - (iii) Anti-virus and Microsoft Office. (2 marks)
  - (iv) Intranet and extranet. (2 marks)
  - (v) Outsourcing and insourcing. (2 marks)
- (Total 20 marks)**

### Question 3

- (a) In relation to computers and using suitable examples, define the terms 'input' and 'output' devices. (6 marks)
- (b) The directors of Groove Ltd have decided to acquire new hardware and software for the company and have approached you for technical assistance.

#### **Required:**

Advise Groove Ltd on the factors to consider when acquiring computer hardware and computer software.

**(14 marks)**  
**(Total 20 marks)**

#### Question 4

Whenever companies acquire and use computer systems, their data and systems have to be safeguarded from possible risks.

**Required:**

- (a) Explain the threats that make companies always worried about their data and information systems.  
(10 marks)
  - (b) Advise on appropriate measures that companies should take to protect their data and information systems.  
(10 marks)
- (Total 20 marks)**

#### Question 5

- (a) Explain the meaning of the terms 'computer software' and 'hardware'.  
(6 marks)
  - (b) Explain the term 'computer operating system' and give suitable examples.  
(4 marks)
  - (c) Describe the functions of the computer operating system.  
(10 marks)
- (Total 20 marks)**

#### Question 6

The systems development life cycle process, once fed with the correct input, should deliver the right information technology solution to the user.

- (a) What are the main stages in the systems development life cycle of an information technology project?  
(10 marks)
  - (b) Why is detailed business requirements analysis critical to the success of any project?  
(4 marks)
  - (c) Describe the various ways of collecting users' requirements before a new system is acquired?  
(6 marks)
- (Total 20 marks)**

### Question 7

The right selection of a network topology and type of computer network determine the extent to which the desired business goals are realized.

**Required:**

- (a) Explain the meaning of the term 'computer network topology' and give suitable examples.  
(5 marks)
- (b) Describe the different types of computer networks.  
(5 marks)
- (a) What advantages does computer networking have over stand-alone computer systems?  
(10 marks)

**(Total 20 marks)**