

# THE PUBLIC ACCOUNTANTS EXAMINATIONS BOARD

*A Committee of the Council of ICPAU*

## CPA (U) EXAMINATIONS

### LEVEL ONE

#### INFORMATION TECHNOLOGY – PAPER 5 (I)

**THURSDAY, 16 DECEMBER 2004**

#### 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 advantages of impact printers is the ability to print:
  - (a) Multiple copies.
  - (b) Quietly.
  - (c) Fast.
  - (d) High quality.
- (ii) Which of the following improves serial printer speeds?
  - (a) Unidirectional printing.
  - (b) Bi-directional printing.
  - (c) Changing toner.
  - (d) Page by page printing.
- (iii) Which of the following programming languages is often used to develop business websites?
  - (a) JAVA.
  - (b) C.
  - (c) PASCAL.
  - (d) COBOL.
- (iv) All the following are features of fourth generation programming languages except:
  - (a) Prototyping in developing programs.
  - (b) Verbosity in program coding.
  - (c) Being slow in job execution.
  - (d) Being interactive.
- (v) Which of the following constitute duties of a systems analyst?
  - (i) System specification.
  - (ii) Programming.
  - (iii) System Management.
  - (iv) Problem definition
  - (v) Assessing system functionality.
  - (a) (ii), (iii) and (v).
  - (b) (i), (ii) and (iii).
  - (c) (i), (iv) and (v).
  - (d) (iii), (iv) and (v).

- (vi) Which of the following is a role of a systems designer?
- (a) Assessing customer needs.
  - (b) Managing systems development.
  - (c) Specifying software modules.
  - (d) Systems problem definition.
- (vii) Which of the following is an example of a non Graphical User Interface (GUI) operating system?
- (a) Disk Operating System.
  - (b) Windows Operating System 3.1.
  - (c) Windows XP.
  - (d) Word Perfect.
- (viii) A unique identifier field of a database is known as a:
- (a) Relation.
  - (b) Field.
  - (c) Key.
  - (d) Password.
- (ix) Which of the following is not a magnetic storage device?
- (a) HARD DISKS.
  - (b) CD ROMS.
  - (c) DISKETTES.
  - (d) TAPES.
- (x) Which of the following is not an example of a “point and click” device?
- (a) Touch Pad.
  - (b) Joy Stick.
  - (c) Mouse.
  - (d) Key Board.

## SECTION B

### Question 2

- (a) Give the main characteristics of a good database.  
(7.5 marks)
  - (b) Explain the main functions of a database management system.  
(7.5 marks)
- (Total 15 marks)**

### Question 3

- (a) Distinguish between application package and application software.  
(3 marks)
  - (b) Explain the various applications of accounting software in business today.  
(12 marks)
- (Total 15 marks)**

### Question 4

- (a) Why is it important to conduct an investigation before a new system is designed?  
(6 marks)
  - (b) Discuss the key attributes of a good systems analyst.  
(9 marks)
- (Total 15 marks)**

### Question 5

- (a) Discuss the significance of security measures in an Information Technology (IT) environment.  
(7.5 marks)
  - (b) How may security of IT resources be ensured?  
(7.5 marks)
- (Total 15 marks)**

### Question 6

- (a) Define the term “computer”.  
(2 marks)
  - (b) Giving two examples of each category, distinguish between computer software and hardware.  
(3 marks)
  - (b) Explain the main characteristics of a good software.  
(10 marks)
- (Total 15 marks)**