

EXAMINATION NO. _____



2015 EXAMINATIONS

ACCOUNTING TECHNICIAN PROGRAMME

PAPER TC4: INFORMATION SYSTEMS

MONDAY 7 DECEMBER 2015

TIME ALLOWED : 3 HOURS
2.00 PM - 5.00 PM

INSTRUCTIONS

1. You are allowed **15 minutes** reading time **before the examination begins** during which you should read the question paper and, if you wish, make annotations on the question paper. However, you are **not** allowed, **under any circumstances**, to open the answer book and start writing or use your calculator during this reading time.
2. Number of questions on paper - 7.
3. **FIVE** questions **ONLY** to be answered.
4. Each question carries 20 marks.
5. Begin each answer on a fresh page.
6. **DO NOT OPEN THIS PAPER UNTIL YOU ARE INSTRUCTED BY THE INVIGILATOR.**

This question paper contains 4 pages

This question paper must **not** be removed from the examination hall.

1. (a) Describe an information centre. **2 Marks**
- (b) Describe any **three** duties/tasks of an information centre. **6 Marks**
- (c) State the **three** disadvantages of end user computing. **6 Marks**
- (d) State the **three** advantages of end user computing. **6 Marks**
- (TOTAL : 20 MARKS)**
2. (a) Describe an Information Technology Disaster recovery plan. **5 Marks**
- (b) Explain any **five** contingency considerations in a disaster recovery plan. **15 Marks**
- (TOTAL: 20 MARKS)**
3. (a) There are **four** types of numbering systems.
- Required:**
- (i) Name the **four** types. **4 Marks**
- (ii) List the characters of a cycle for each of the **four** numbering systems. **4 Marks**
- (iii) Mention the base used for each of the **four** types of the numbering system. **4 Marks**
- 12 Marks**
- (b) List the **three** types of character coding system and the number of bits used by each. **6 Marks**
- (c) How is data represented in a computer? **2 Marks**
- (TOTAL: 20 MARKS)**
4. (a) Define the following terms:
- (i) Intranet **2 Marks**
- (ii) Extranet **2 Marks**
- (iii) E-mail **2 Marks**
- 6 Marks**
- (b) What are:
- (i) Intranet applications; **3 Marks**
- (ii) Extranet applications. **3 Marks**
- 6 Marks**

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- (c) What is used to segregate an intranet from the internet? **2 Marks**
- (d) (i) Define the term “real time processing system”. **2 Marks**
- (ii) Define the term “batch processing system”. **2 Marks**
- (iii) State the advantage of using:
- (1) Online processing system; **1 Mark**
- (2) Batch processing system. **1 Mark**
- (TOTAL: 20 MARKS)**

5. (a) There are three types of information within an organization.

Required:

- (i) Describe the **three** types of information. **6 Marks**
- (ii) What are the characteristics of each type of information? Mention **three** characteristics of each type. **9 Marks**
- (b) What is good information. **2 Marks**
- (c) Define the term “computer software”. **2 Marks**
- (d) Is information classified as software or hardware? Give reason for your answer. **1 Mark**
- (TOTAL: 20 MARKS)**

6. (a) Write in full the abbreviations “CPU” and “ALU” and explain the role that is played by each one of them. **4 Marks**
- (b) Outline the functions of the main store in the CPU. **2 Marks**
- (c) Outline any **six** factors that you would look for when buying new computer equipment for your organization. **6 Marks**
- (d) Computer networks are vital in organizations.

Required:

- Describe **two** common types of computer networks. **4 Marks**
- (e) Mention **four** advantages of being on a network. **4 Marks**
- (TOTAL: 20 MARKS)**

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7. For a systems analyst to arrive at a satisfactory solution, he/she must be aware of the criteria of a good system design.

Required:

- (a) Explain at least **five** requirements that a systems analyst should aim to satisfy. **10 Marks**
- (b) Mention any **ten** system criteria that should be achieved. **10 Marks**
(TOTAL: 20 MARKS)

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NOT FOR SALE