



PAC INSTITUTE OF TECHNOLOGY AND SOCIAL STUDIES MAY – AUGUST 2025 ASSESSMENT

FORMATIVE ASSESSMENT

Qualification / Course : COMPUTER SCIENCE LEVEL 6

Unit of Competency : DEVELOP AN INFORMATION SYSTEM

WRITTEN ASSESSMENT TIME: 3 HOURS

INSTRUCTIONS TO THE CANDIDATE:

- 1. Read all the instructions carefully before attempting the questions.*
- 2. This paper consists of two sections, A & B.*
- 3. You are allowed 3 Hours to Answer the questions.*
- 4. Marks for each question are indicated in brackets.*
- 5. Write your responses in the Separate Answer booklet provided.*
- 6. Do not write anything on this question paper.*

SECTION A: (40 MARKS)

Answer ALL the questions in this section

1. During an information system installation, the management noted the system is having five major components. Describe **TWO** such components. (4 Marks)
2. Allan intended to acquire an information system for a company using leasing acquisition method. Outline **FOUR** advantages of this method. (4 Marks)
3. Crosz Tech Company uses a transaction processing system in its operations to collect all the required data in the organisation. Identify **FOUR** examples of this system. (4 Marks)
4. Decision makers are tasked with making decisions based on different situation in an organisation. Distinguish between structured and unstructured decision in decision support system (4 Marks)
5. An Institution is carrying out perfective maintenance on its system. Explain **TWO** reasons for carrying out this maintenance. (4 Marks)
6. During a management meeting in Teck Company, the manager used an exception report. Outline **FOUR** uses of exception reports in management. (4 Marks)
7. A Company has been struggling with a failing ICT project which has been on-going for two years and the management are committed for it to run to completion. Outline **FOUR** causes of this failure. (4 Marks)
8. Legal issues in formation must be clearly stipulated in order to ensure the system is safe. Explain **TWO** such issues. (4 Marks)
9. Sazzy Company installed a knowledge work system (KWS) for use by the workers in the technical level. Highlight **FOUR** advantages this system. (4 Marks)
10. A Sacco intends to engage an ICT project manager for future projects in the organisation. Explain **TWO** roles that the manager would perform. (4 Marks)

SECTION B: (60 Marks)

Answer any THREE questions in this section

11. a. John, a manager is planning to conduct a training on processes involved in Information System within his company. Describe **FIVE** steps he would use in his plan. (10 marks)

b. A business prefers using in-house software development acquisition method. Outline **FOUR** challenges they will encounter from the above-mentioned acquisition method. (4 Marks)

c. There are new trends that are being adopted by organisations in areas of information system. Explain **THREE** such trends. (6 Marks)

12. a. Figure 1 shows organisational levels of management. Use it to answer the question that follows.

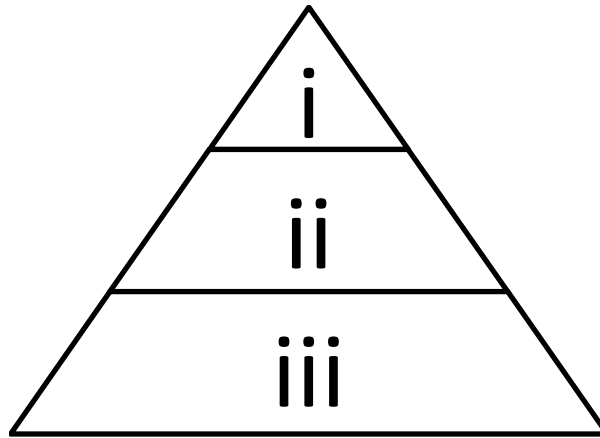


Figure 1

Describe the levels labelled i, ii and iii. (6 Marks)

b. Outline **FOUR** reasons for carrying out corrective maintenance in information systems.

(4 Marks)

c. Cattech Company used a Gantt chart information system planning technique. Describe **FIVE** benefits of using this technique. (14 marks)

13. a. A good information system is essential for smooth operation of a business. Outline **FOUR** qualities which a good information system must meet. (4 Marks)

b. Organisations are using expert systems to help them make judgement of complex situations. Describe **FOUR** characteristics of an expert system. (8 Marks)

c. Computer crimes in an information system is the illicit perpetrated through the use of computer networks. Explain **FOUR** such crimes. (8 Marks)

14.a) Explain the following terms as applied in VB.Net programming language. (10 Marks)

i) Object

ii) Property

iii) Method

iv) Event

v) Class

b) Mouse events and keyboard events are important event handling techniques used in **VB.NET**.

Write VB.Net code for each of the following event handling functions. (10 Marks)

i) MouseDown

ii) MouseUp

iii) MouseHover

iv) KeyUp

v) KeyDown