

2922/205A
PROJECT MANAGEMENT INFORMATION
SYSTEMS (THEORY)
Paper 1
November 2022
Time: 2 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN PROJECT MANAGEMENT

MODULE II

PROJECT MANAGEMENT INFORMATION SYSTEMS (THEORY)

Paper 1

2 hours

INSTRUCTIONS TO CANDIDATES

This paper consists of SIX questions.

Answer any FOUR of the SIX questions in the answer booklet provided.

Candidates should answer the questions in English.

This paper consists of 3 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

1. (a) (i) List **two** factors that could affect the finish date of a project. (1 mark)
- (ii) Explain **two** roles of a budget during planning of projects. (4 marks)
- (b) Diana noted with concern that an information system of her company required replacement. Outline **four** signs that she could have noted. (4 marks)
- (c) (i) Define the term *index field* as used in DBMS. (2 marks)
- (ii) Frank enabled audit trail settings for the information system of their company. Outline **four** reasons that influenced his action. (4 marks)

2. (a) (i) Describe **two** types of work breakdown structure (WBS) codes used in project management software. (3 marks)
- (ii) ABC Company Ltd. intends to select a tailor-made information system to automate its operations. Outline **five** challenges that the company would realize while using the software. (5 marks)
- (b) (i) Project team managers are required to address disputes among project team members. Outline **three** possible causes of these conflicts. (3 marks)
- (ii) Judy was required to prepare a milestone report for a certain project. Outline **four** typical content expected in the report. (4 marks)

3. (a) Explain **two** types of physical security measures that could be implemented on an information system. (4 marks)
- (b) (i) Project budgeting uses different types of cost estimates. Outline **three** types of cost estimates that are likely to be used. (3 marks)
- (ii) Explain **two** circumstances that could necessitate leasing of some resources in a project. (4 marks)
- (c) Figure 1 shows a section of a tool bar in an email program. Use it to answer the question that follows.

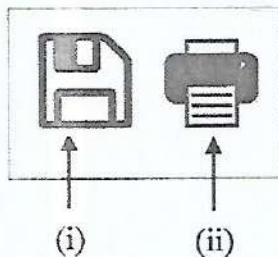


Figure 1

3. (a) Explain the function of each of the tools labelled (i) and (ii). (4 marks)

4. (a) (i) Outline **two** disadvantages of manual data storage. (2 marks)
- (ii) Charles was required to identify risks that could be facing an information system project. Outline **four** reasons that could have influenced the task. (4 marks)
- (b) Differentiate between *flexible* and *inflexible* constraints as used in project management. (4 marks)

- (c) (i) Define the term *baseline cost* as applied in project management. (1 mark)
- (ii) Gilbert intends to turn around the project timeline for a client. Outline **four** guidelines that he would use to achieve the objective. (4 marks)
5. (a) Explain **two** challenges of emerging trends in technology during project life cycle. (4 marks)
- (b) (i) Outline **one** disadvantage of batch data processing mode. (1 mark)
- (ii) Distinguish between *sub task* and *summary task* as used in project management. (4 marks)
- (c) (i) Outline **one** limitation of online file sharing. (1 mark)
- (ii) Define the term *actual work* as applied in project management. (1 mark)
- (d) Database management system are commonly used in organizations. Explain **two** benefits that could be influencing this trend. (4 marks)
6. (a) (i) Outline **two** functions of critical path in a project planning. (2 marks)
- (ii) Distinguish between *decision support system* and *management information systems*. (4 marks)
- (b) Table 1 shows activities and durations for a software testing project in a certain organization. Use it to answer the questions that follow.

	Activities	Predecessor	Duration
A	Coding	-	10
B	Test data	-	3
C	Dry testing	A	2
D	Production testing	B, C	2
E	Feedback	A	5
F	Code review	E	3
G	Integration Testing	D	5
H	Final feedback	G	7
I	Test Report	F	9
J	Software launch	I, H	2

Table 1

- (i) Draw a network diagram showing the earliest start times (EST) and latest start times (LST). (7 marks)
- (ii) Determine the critical path for the network diagram in (i). (2 marks)

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