



DICT LEVEL III

INFORMATION SYSTEMS PROJECT SKILLS

TUESDAY: 31 August 2021.

Time Allowed: 3 hours.

Answer ALL questions. Marks allocated to each question are shown at the end of the question.

**QUESTION ONE**

- (a) Highlight four areas that a project review activity should focus on during its life cycle. (4 marks)
- (b) Differentiate between the following as used in information systems project management:
- (i) Project role and project responsibility. (2 marks)
  - (ii) Primary stakeholder and secondary stakeholder. (2 marks)
- (c) Highlight three responsibilities of a project sponsor. (3 marks)
- (d) Assess three common problems that might be encountered when defining and documenting project scope. (6 marks)
- (e) Suggest three reasons why a Project Manager may want to use Program Evaluation Review Technique (PERT) charts. (3 marks)
- (Total: 20 marks)**

**QUESTION TWO**

- (a) The project team should meet and discuss the results of risk analysis and the risk evaluation plan.  
Outline four areas addressed during risk response evaluation. (4 marks)
- (b) The major role of project execution is to complete the work defined in the project management plan and meet key project objectives.  
Critique strategies that a Project Manager might adopt to promote a successful project execution. (8 marks)
- (c) Enumerate four steps taken to improve the quality where it seems lacking or insufficient within the project management setting. (4 marks)
- (d) Interpret the following terms as used in project quality management.
- (i) Cost of quality. (1 mark)
  - (ii) Prevention costs. (1 mark)
  - (iii) Appraisal costs. (1 mark)
  - (iv) Failure costs. (1 mark)
- (Total: 20 marks)**

**QUESTION THREE**

- (a) Scope management consists of a series of steps and tasks designed to help the Project Manager manage the project deliverables.

Describe five inputs and three outputs of the project scope management. (8 marks)

- (b) In order to properly update the project schedule, you need to determine the process to make changes to the project schedule.

Describe what the above process includes. (4 marks)

- (c) Consider the product development activity list below:

1.0 New Product Release

1.1 Market Research

1.1.1 Focus Groups

1.1.2 Surveys

1.1.3 Research Analysis

1.1.4 Market Research Findings

1.2 Product Design

1.2.1 Design

1.2.1.1 Research Evaluation

1.2.1.2 Design Document

1.2.2 Concept models

1.2.3 Design Selection

1.3 Product Development

1.3.1 Bill of materials

1.3.2 Initial prototype

1.3.3 Prototype testing

1.3.4 Production development and sign off

**Required:**

Sketch its work breakdown structure.

(8 marks)

**(Total: 20 marks)**

**QUESTION FOUR**

- (a) Discuss how you would carry out stakeholders management. (8 marks)

- (b) Identify four ethical issues associated with information systems project management. (4 marks)

- (c) Assess four activities associated with project monitoring and control. (8 marks)

**(Total: 20 marks)**

**QUESTION FIVE**

- (a) An information systems project consists of eight activities. The activity duration and precedence relationships are indicated in the table below:

Activity	Duration (in weeks)	Immediate predecessor
A	5	None
B	7	None
C	6	None
D	3	A
E	4	B,C
F	2	C
G	6	D
H	5	E,F

**Required:**

- (i) Draw the network diagram. (4 marks)
  - (ii) Calculate the project duration time. (1 mark)
  - (iii) Identify the critical path. (1 mark)
  - (iv) Explain the effect on project completion time if activity E was delayed by 3 weeks. (2 marks)
  - (v) Explain how the project completion time would be affected if activity F is delayed by 3 weeks. (2 marks)
- (b) Define the following terms as used in IS projects:
- (i) Plan quality. (2 marks)
  - (ii) Quality assurance. (2 marks)
  - (iii) Quality control. (2 marks)
- (c) List four documents you would need during project initiation. (4 marks)

**(Total: 20 marks)**

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