

CICT PART II SECTION 3

SYSTEMS ANALYSIS AND DESIGN

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WEDNESDAY: 19 May 2021. Time Allowed: 3 hours.			
Answer ALL questions. Marks allocated to each question are shown at the end of the question.			
QUES (a)	STION ONE Formulate four questions that a systems analyst should ask when seeking to know an organisation's	stakeholders. (4 marks)	
(b)	Possibility		
	Required: Describe the following terms: (i) Return on Investment (ROI). (ii) Break even point. (iii) Discounted eash flow technique. Explain two types of costs incurred during systems life cycle. Once the project has been evaluated a report must be provided a provide along a consist information.		
	(i) Return on Investment (ROI).	(2 marks)	
	(ii) Break even point.	(2 marks)	
	(iii) Discounted cash flow technique.	(2 marks)	
(c)	Explain two types of costs incurred during systems life cycle.	(4 marks)	
(d)	Once the project has been evaluated, a report must be produced to provide clear, concise information about the outcome of the evaluation report. Required:		
	Describe the purpose of the three main sections of an evaluation report.	(6 marks)	
QUESTION TWO (a) ABC Company Ltd. has consulted you to analyse a system that they wish to be developed within the shortest time possible.			
	Justify a suitable systems analysis development methodology for ABC Company Ltd.	(2 marks)	
(b)	(i) Describe two feasons for obtaining information about a user skills set before starting an int	erview. (2 marks)	
	(ii) Formulate three guidelines for preparing good interviews.	(3 marks)	
(c)	You are a system analyst using Joint Application Development approach to develop a system at AE You have planned to meet the senior management.	Development approach to develop a system at ABC Company Ltd. t.	
	Required: Formulate five goals that should be achieved during a session with the senior management.	(5 marks)	
(d)	Using an example in each case differentiate between a "business use case" and a "system use case".	(4 marks)	
(e)	Using an example, explain the term "data dictionary",	(4 marks) Fotal: 20 marks)	
QUESTION THREE			
(a)	Discuss three stages involved in system testing.	(6 marks)	

Assess four objectives of post implementation evaluation review (PIER).

(b)

CT32 Page 1 Out of 2

(4 marks)

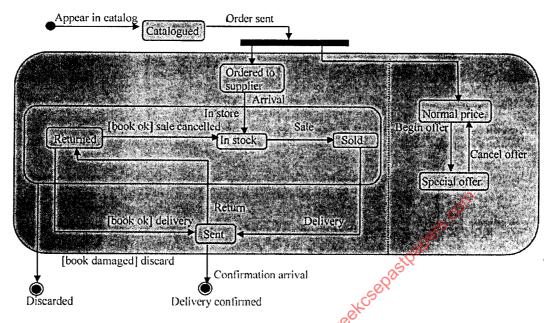
(c) Examine five reasons of systems analysis and specification.

(5 marks)

(d) Describe five outputs for system design.

(5 marks) (Total: 20 marks)

QUESTION FOUR
(a) Study the state machine diagram shown below:



Required:

Using the information given on the state machine diagram above, generate a system case model.

(10 marks)

- (b) Using an example in each case, differentiate between "functional requirements" and "non functional requirements".

 (4 marks)
- (c) Describe six objectives of carrying out systems specifications during systems development.

(6 marks) (Total: 20 marks)

QUESTION FIVE

(a) Discuss four challenges encountered during systems integration and testing.

(8 marks)

- (b) Highlight three examples of standards in each of the following:
 - (i) User interface design.

(2 marks)

(ii) Procedure.

(2 marks)

(c) Using an illustration explain the "user interface design process".

(8 marks)

(Total: 20 marks)