

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code: BCA-202

INFORMATION SYSTEM ANALYSIS AND DESIGN

Time Allotted: 3 Hours

Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words

as far as practicable.

Group - A (Multiple Choice Type Questions)

1.	Choose the correct alternatives for any ten of the following	ng: I×1	0=10
	 (i) The two basic driving factors of software are (a) flowcharting, coding (c) algorithms, programs 	and	
	 (ii) Cost benefit analysis (a) compares the cost with the benefits of introduction (b) estimates hardware and software costs. (c) evaluates the tangible and intangible factors. (d) All of the above 	cing a computer based systems.	
	 (iii) CASE tools means (a) Computer Aided System Engineering (b) Corporate Aided Symbolic Engineering (c) Computer Aided Software Engineering (d) Corporate Automated System Engineering 		
	(iv) A state diagram(a) does not have a node.(c) is not related to object modelling technology.	(b) is a graph having the arcs and transaction (d) None of these	tions.

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(v)	Entities, Attributes and Relationship are associated (a) logical concepts of data (c) persons of an organization	with (b) physical concepts of data (d) None of these
(vi)	Prototype is a (a) mini model of the existing system (c) working model of the existing system	(b) mini model of the proposed system (d) None of these
(vii)	White box testing is also known as (a) Procedure testing (c) Structural testing	(b) Performance testing(d) All of these
(viii)	The first step in the SDLC is (a) Preliminary investigation and analysis (c) Database design	(b) System design(d) None of these
(ix)	Validation testing is called (a) Beta testing (c) Gamma testing	(b) Alpha testing (d) Acceptance testing
(x)	Open system interacts with the (a) boundary (c) control	(b) environment (d) closed systems
(xi)	Structured English is (a) Coding technique (c) Used for testing	(b) Designing tool(d) None of these

Group – B

(Short Answer Type Questions)

	Answer any three of the following:	5×3=15
2.	. What is a relationship? Describe different types of relationship with examples.	1+4=5
3.	What is a flowchart? What are the advantages and limitation of flowchart?	2+3=5
4.	What is System Analysis? What are the roles of a System Analyst?	2+3=5
5.	Write the advantages and disadvantages of incremental model.	5
6.	What is data dictionary? What are the use of data dictionary?	2+3=5

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(Long Answer Type Questions)

15x3=45

Answer any three of the followings:

sembe different types of risks related to a system.

sof ₹ 5,000 and above for three years or above the interest rate is 12%. On the same deposit less than 3 years it is 10%. On deposits below ₹ 5,000 the interest rate is 8% regardless of the

Compation in:

71/2+71/2=15

5x3=15

Group - C

enbe different types of feasibility study.

(is Structured English?

7+5+3=15

as the following policy on deposits: