INFORMATION SYSTEM ANALYSIS & DESIGN (SEMESTER - 2)

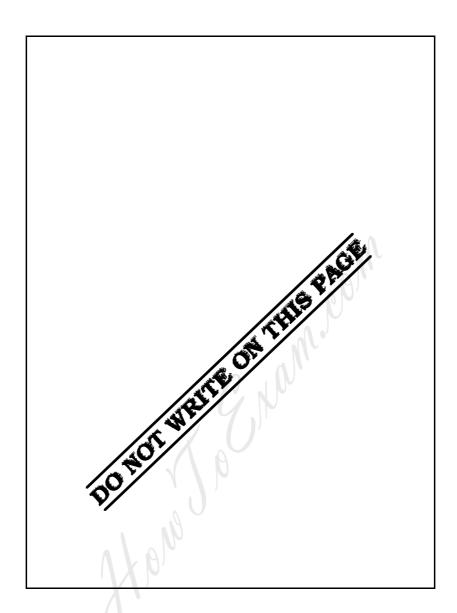
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II-222455 (2)

Marks Obtained





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ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE - 2008 INFORMATION SYSTEM ANALYSIS & DESIGN SEMESTER - 2

Time	: 3 H	ours]	[Full Marks: 70
			GROUP – A	
			(Multiple Choice Type Questions)	
1.	Choo	se the	correct alternatives for the following:	10 ∞ 1 = 10
	i)	A Fea	asibility study should focus on	
		a)	Operational feasibility b) Technical feasibility	
		c)	Economic feasibility d) All of these.	
	ii)	Cost-	Benefit analysis	
		a)	compares the cost with the benefits, of introducing a Compu	ıter based
			system	
		b)	estimates the hardware and software costs	
		c)	evaluates the tangible and non-tangible factors	
		d)	all of these.	
	iii)	The o	outcome of the analysis of SDLC phase is	
		a)	preparation of Program Specification Document	
		b)	preparation of file layout and Screen Design Document	
		c)	preparation of 'pseudo codes'	

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d)

none of these.

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iv)	In which software, development problem solving stages are the results delivered?											
	uenv											
	a)	Status quo	b)	Problem definition								
	c)	Technical development	d)	Solution integration.								
v)	A sy	em can be defined as the										
	a)	orderly grouping of independent components not linked together according										
	to a plan to achieve a specific objective.											
	b)	o) orderly grouping of independent components linked together according										
	to a plan to achieve a specific objective.											
	c) orderly grouping of dependent components linked together according											
		to a plan to achieve a specific	objecti	ve.								
	d)			omponents linked together acc	ording							
		to a plan to achieve a specific objective.										
vi) Which of the following statements are true ?												
	a)	a) In a system the central objective is of prime importance.										
	b)	BCNF is stronger than the 3N	F.									
	c)) Feasibility study is not required in the system development life cycle.										
	d)	In system development life cyc	ele test	ing is done before the design								
	phase.											
vii)	Eco	Economic feasibility is also known as										
	a)	Cost benefit analysis	b)	Demand supply analysis								
	c)	Both (a) and (b)	d)	None of these.								
viii)	viii) The most important feature of Spiral model is											
	a)	Quality Management	b)	Maintenance								
	c)	Risk Assessment	d)	None of these.								

CS/BCA/SEM-2/BCA-202/08 5 ix) SRS stands for Software Requirement Specification a) b) System Requirement Specification c) System Rectification Standard None of these. d) X) BCNF is a type of a) Indexing b) **DFD** Normalis ation None of these. c) d) **GROUP - B** (Short Answer Type Questions) Answer any three of the following. $3 \propto 5 = 15$ 2. Discuss the different Project Management Activities. 3. What is System Analysis? What are the roles of a System Analyst? 4. What are Cohesion and Coupling? 5. What is data dictionary? Why is it needed? 6. What are super key and candidate key?

GROUP - C

	(Long Answer Type Questions)	
	Answer any three of the following.	$3 \infty 15 = 45$
a)	What are the important elements of a System?	5
b)	What is Transitive Dependency? Illustrate with examples.	5
c)	What is the difference between First and Third Normal Forms?	5
a)	What factors must be considered prior to system selection?	5
b)	What is the difference between Unit Testing and System Testing?	5
c)	What is post-implementation review? Explain.	5
	b) c) a) b)	Answer any three of the following. a) What are the important elements of a System? b) What is Transitive Dependency? Illustrate with examples. c) What is the difference between First and Third Normal Forms? a) What factors must be considered prior to system selection? b) What is the difference between Unit Testing and System Testing?

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9. What do you mean by normalization? a) b) Define primary key and foreign key with examples. c) Explain 1st NF, 2nd NF & 3rd NF with example. 10. a) What is DFD? Discuss different symbols used in DFD. b) Differentiate between Logical DFD & Physical DFD. c) Draw a Physical DFD for a Payroll System of any Organization. 5 d) Draw a DFT for a Quiz Software. 11. Distinguish between software verification and software validation. a) The discount policy has following conditions for the customers. If customers is b) from the 'book stores': Get a trade discount of 25% if orders for 6 or more copies per book title. If customer is from 'Libraries and individuals':

5% allowed on order of 6 – 19 copies per book title

10% on orders for 20 copies per book title and

15% on orders for 50 copies or per book title.

Develop a process description in

3 ∞ **3**

- i) Structured English
- ii) Decision Table
- iii) Decision Tree.

END