

ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE - 2008 ANALYSIS AND DESIGN OF INFORMATION SYSTEM SEMESTER - 4

			•	
Time	: 3 Hours]			 Full Marks: 70

GROUP - A

(Multiple Choice Type Questions)

Ch	oose t	he correct alternatives for the	following	g: $10 \times 1 = 10$					
Ð	Th	e relationship of data elements	in a mo	dule is called					
	a)	Coupling	b)	Cohesion					
•	c)	Modularity	. d)	none of these.					
10	Wh	nich of the following is not a pl	nase in t	he SDLC ?					
	a)	Analysis current system	b)	Define the latest technology					
	c)	Design a new system	d)	Develop a new system.					
HI)	Alp	ha testing is done by							
	a)	customer	b).	tester					
	c)	developer	d)	all of these.					
ív)	Du	ring what phase is the SRS pe	rformed	?					
	a)	System design phase	b)	System development phase					
	c)	System analysis phase	ď)	All of these.					
v)	Wh	at is abstract in coding?							
	a)	a) The classification of objects, grouped according to their significant similarities							
	b)	The classification of obje	ects, gro	ouped according to their significant					
	c)	c) The classification of objects, grouped according to their names							
	d)	Hiding information inside abstract manner.	a class	so that it can only be known in an					

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vi)	A da	ata dictionary is a list containing details of
	a)	data elements input to the system
	b)	data elements output to the system
	c)	all data elements, data structure and data flows
•	d)	none of these.
vii)	Proje	ect risk factor is considered in
	a)	Waterfall model b) Prototyping model
	c)	Spiral model d) Iterative enhancement model.
viii)	A de	ecision table is
	a)	a truth table
	b)	a table that facilitates taking decisions
	c)	a table listing conditions and actions to be taken based on the testing of
	•:	conditions
	d)	a table in a decision support system.
ix)	Nor	malisation is a process of restructuring a relation to
	a)	minimize redundancy
•	b)	maximize duplication of data to ensure reliability
11.	c)	achieve uniform resizing
	d)	allow data addition.
x)	A co	ontext diagram
	a)	describes the context of system
	b)	is a DFD that gives an overview of the system
	c)	is a detailed description of system
	d)	is not used in drawing a detailed DFD.



GROUP - B

(Short Answer Type Questions)

Answer any three of the following.

 $3 \times 5 = 15$

2. What is SDLC ? What are the steps in SDLC ?

2 + 3

What are the limitations of waterfall model?

=

4. What is Spiral model? What are the four main phases in Spiral model? Why is Spiral model called meta model?
1 + 2 + 2

What are the characteristics of a good SRS document?

5

6. a) Why do you try to minimize coupling and maximum cohesion?

b) What are the different types of cohesion?

2 + 3

GROUP - C

(Long Answer Type Questions)

Answer any three questions.

 $3 \times 15 = 45$

- 7. Define generalization and specialization. What is aggregation? Draw an ERD of a Hospital with all its entity and activity. 4 + 3 + 8
- Consider the following data :

Task	Preceding Task	Duration (in months)
A		3
В	_	4
С	В	3
D	A	1
E Cal	Α "	2
, Am F lati	D D	``\ 3

- 1) Draw a PERT chart for the above activities.
- ii) Calculate the earliest starting time, earliest finishing time, latest starting.
- iii) Determine the critical path.

5 + 6 + 4



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GROUP - A

(Multiple Choice Type Questions)

Cho	ose ti	he correct alternatives for the	following	{:	$10 \times 1 = 10$				
1)	The	The relationship of data elements in a module is called							
	a)	Coupling	b)	Cohesion					
	c)	Modularity	d)	none of these.					
Ħ)	Wh	ich of the following is not a ph	ase in t	he SDLC ?					
	a)	Analysis current system	b)	Define the latest technology	ogy				
•	c)	Design a new system	d)	Develop a new system.	*				
HI)	Alp	ha testing is done by							
	a)	customer	b)	tester					
	c)	developer	d)	all of these.					
ív)	Du	ring what phase is the SRS pe	rformed	?	1.1				
	a)	System design phase	b)	System development pha	se				
	c)	System analysis phase	ď)	All of these.					
v)	Wh	at is abstract in coding?							
	a)	The classification of obje	ects, gre	ouped according to their	significant				
	b)	The classification of obje	cts, gr	ouped according to their	significant				
	c)	The classification of objects	, groupe	d according to their names					
	d)	Hiding information inside abstract manner.	a class	so that it can only be k	nown in an				

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