Nirma University Institute of Diploma Studies

Institute of Diploma Studies
Supplementary Examination, January-2011
Diploma in Computer Engineering, Semester-V

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1ITA10 Software Engineering

Roll/Exam

Supervisor's initial

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Time: 3	Hours	senegnii batanto tanto	Max. Marks:	100
Instruc	2. Figures to right in3. Use Section wise		As erolateutural bloc The objective of ev- tacts.	yi V
		SECTION - I		
Q-1			debom-viorizones, (n	
Α.	Define the following terms.	fills of honouth and eachtrack		1
1.	Bespoke Products		a de la creato a se il de-	
ii.	Intellectual Property rights			
iii.	Emergent properties	ilvola tedi terrominio tedic		
iv.	Stakeholder		Allabore	
V.	Risk management		bolm (d. implive is	
				vii.
В.	Answer the Following.			
i.	Explain the activities involved in			
ii.	What is system procurement? V			
iii.	Which three reliability compone			
iv.	Does the risk monitoring reduce	e the probability of identified	risks? Justify.	
Page 1		est and function-unicated des		
Q-2		Inthano Reved-Inevel for	Control ized control or	W.
Α.	Answer the Following. (Any Ty			(
1.	Explain the water fall model. D			
ii.	Differentiate the requirement va			
iii.	Describe the functional and nor	-functional requirements of i	railway reservation	
	system.	i Decemblereb embler ec		
	4 d P H : (4 T	Commence to		
В.	Answer the Following. (Any Tu		Terabou por co maw	hi.
i.	Differentiate milestones and de			
11.	Differentiate Product and proce		and wny?	
iii.	Explain the various types of rish	ks associated with a project.		
Q-3				
A.	Answer the Following.			1
i.	What is application domain? W development?	Why is it important to unders	tand it before any project	et
ii.	Explain bar-charts and activity	networks.	anna som så gragset somsle sør fin me så l	
В.	Answer the Following. (Any Ty	wo)		
i.	Why good project management		ss?	610
1.	with good project management			
		Page 1 of 2		

- ii. Write the drawbacks of regular document production in an organization.iii. What strategies do the managers develop to manage risks?iv. How the Boehm's spiral model is different from waterfall model?

SECTION - II

Q. 4	Solopaman Amademin Carallia	
A.	State whether the following statements are true or false and justify your answer.	05
i.	All shared data is held in a central database that can be accessed by all sub systems.	
ii.	Each identified sub system is decomposed in to modules.	
iii.	Smalltalk which is object oriented language used for interactive systems is executable specification languages.	
iv. v.	An architectural block diagram presents the detailed implementation of the system. The objective of evolutionary prototyping is to deliver a working system to endusers.	
B.	Fill in the blanks.	05
i.	A shared database in a system model is sometimes called model.	
	a) repository model b) Abstract model c) data model	
ii.	In design Services are allocated to different components and the interfaces of these components are designed.	8
	a) component b) data structure c)algorithm	
iii.	A is a system component that provides one or more services to other	
	- module.	
	a) system b) module c) sub system	
iv.	Formal system specification is complementary to specification technique.	
	a) informal b) partial c) complete	
V.	A is an entity which has a private state.	14
	a) attribute b) object c) function	
C.	Distinguish the following	
i.	Object-oriented strategy and function-oriented design strategy	03
ii.	Centralized control and Event-based control	. 03
iii.	Top-down testing and bottom-up testing	02
2-5.	Answer the following. (Any Four)	. 20
i.	What is data dictionary? List out the advantages of data dictionary.	, 20
ii.	Explain, why, for large systems development, it is recommended that prototypes	
	should be 'throw-away' prototypes?	
iii.	What do you understand by the terms cohesion and coupling? Explain.	
iv.	Suggest why data flow diagrams are intuitive and easy-to-understand by non-	
	technical staff.	
v.	Explain the abstract machine model in detail.	
2-6.	Answer the following.(Any Three)	12
i.	Which are the principles for designing any project?	
ii.	List out all prototyping techniques and explain any one in detail.	
iii.	Explain an incremental development process in detail.	
iv.	List out all test plan contents and explain each contents in brief.	
v.	In which condition back to back testing is applied on a system? How?	