ROLL NO.	

Subject: ANALYSIS & DESIGN OF INFORMATION SYSTEMS Code: DC59

Diplete - CS

DECEMBER 2012 Time: 3 Hours

Max. Marks: 100

PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.

NOTE: There are 9 Questions in all.

- Question 1 is compulsory and carries 20 marks. Answer to Q.1 must be written in the space provided for it in the answer book supplied and nowhere else.
- The answer sheet for the O.1 will be collected by the invigilator after 45 minutes of the commencement of the examination.
- Out of the remaining EIGHT Questions answer any FIVE Questions. Each question carries 16 marks.

Q.1	\mathbf{C}	hoose the correct or the best a	Iternative in the following: (2×1)	
	a.	a help employees create and share documents that sugday-to-day office activities.		
		(A) Decision support systems(C) Communication systems.	(B) Expert systems(D) Office automation systems	
	b.		networking and telecommunications technologies re, optimize, and support local and wide area	
		(A) Graphic artists	(B) Network architects	
		(C) Web architects	(D) Technology specialists	
	c.	The utility software that is in t is known as	between application software and systems software	
		(A) Middleware(C) Human ware	(B) ADE(D) Interface	
	d.	d. Which design emphasizes the drawing of pictorial system models to doct the technical or implementation aspects of a new system?		
		(A) Model-driven design(C) Event-driven design	(B) Modern-structured design(D) Object-oriented design	
	e.	. Which of the following tools are used in SASD?		
		(A) DFD	(B) CASE	
		(C) HIPO	(D) All of these	

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	f.	Which menu uses pictures to represent menu options in the main body of the window?			
		(A) Pop-up menus (E	B) Pull-down menus		
			Cascading menus		
	g.	defines the minimum and maximum number of occurrences of one entity that may be related to a single occurrence of the other entity.			
	(A) Cardinality (B) Degree				
		(C) Parent entity (I) Recursive relationship		
	h.	. A models the life cycle of a single object.			
	(A) State transition event (B) State machine diagram				
	(C) Design class diagram (D) Model object diagram				
	i.	i. A structured chart			
		 (A) shows module inter-relationships in a hierarchical manner. (B) describes the internal structure of a program in a graphical manner. (C) is a graphical representation of structured English. (D) depicts data structures in the form of a chart. 			
	j.	OLTP stands for			
			B) Online transaction planD) Online testing processing		
	Answer any FIVE Questions out of EIGHT Questions. Each question carries 16 marks.				
Q.2	a.	Define Information System? Who are system? Discuss their roles.	* -	ntion 6)	
	b.	Explain the different classes of Inform	ation System Applications. (1	0)	
Q.3	a.	What are the basic ideas of RAD? Gi RAD approach.		es of 8)	
	b.	Describe Capability Maturity Model (C	CMM) for quality management. (8)	
Q.4	a.	What is Rapid Architected Analysis? applying rapid architected analysis. G		s for 7)	

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	b.	What is the purpose of Scope Definition Phase? List the five tasks you descope definition phase.	to in the (5)
	c.	Write short note on Business Process Redesign (BPR).	(4)
Q.5	a.	Briefly, describe the Use-case modeling techniques. List the benefits provided by use-case modelling.	that are (10)
	b.	Describe some criteria that makes a good Data model?	(6)
Q.6	a.	Today many analysts and designers prefer prototyping a modern enginessed approach to design. Describe some advantages and disadvantages approach.	_
	b.	What is an activity diagram? Give the guidelines for constructing diagrams.	activity (8)
Q.7	a.	Based on the type of computer user, what are the important human engine factors that can be incorporated into the system designs?	eering (8)
	b.	Distinguish between different types of computer users and design considerate.	erations (4)
	c.	What are the "commandments" offered by Galitz to solve the problems interface design?	of user (4)
Q.8	a.	Define visibility and explain its three levels.	(4)
	b.	In brief explain the following terms:- (i) Entity class (ii) Strategy pattern (iii) Deployment diagram.	(2×3)
	c.	What are the steps required to transform the class diagram prepared in Odesign class diagram?	OA to a (6)
Q.9	a.	Identify several system conversion strategies.	(8)
	b.	What are the objectives of system maintenance?	(4)
	c.	What are the different types of program restructuring?	(4)