## **Diplete - CS (OLD SCHEME)**

Code: DC15

Time: 3 Hours

Max. Marks: 100

JUNE 2011

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.

Q.1	Choose the correct or the best alternative in the following:			
	a.	a. PERT chart is used in activities:-		
		<ul><li>(A) project development</li><li>(C) Project scheduling</li></ul>	<ul><li>(B) project planning</li><li>(D) project cost estimation</li></ul>	
	b.	Which term is applicable to functi	on abstraction?	
		<ul><li>(A) Requirement specification</li><li>(C) Project planning</li></ul>	<ul><li>(B) Coupling</li><li>(D) Encapsulation</li></ul>	
	c.	Basis path testing is a technique for	or	
		<ul><li>(A) control structure</li><li>(C) design structure</li></ul>	<ul><li>(B) program structure</li><li>(D) data structure</li></ul>	
	d.	CASE stands for		
		<ul> <li>(A) Computer Assisted System for Engineers</li> <li>(B) Computer Aided Software Engineering</li> <li>(C) Computer Application System Engineer</li> <li>(D) Computer Aids for System Engineer</li> </ul>		
	e.	Coupling is related to		
		<ul><li>(A) project planning</li><li>(C) systems design</li></ul>	<ul><li>(B) requirement specification</li><li>(D) systems maintenance</li></ul>	
	f.	COCOMO model was proposed b	у	
		<ul><li>(A) Putnam</li><li>(C) Booch</li></ul>	(B) Boehm (D) Beizer	

	g. Modifying the software for ever charging environment			
		<ul><li>(A) Adaptive maintenance</li><li>(C) Perfective maintenance</li></ul>	<ul><li>(B) Corrective maintenance</li><li>(D) Preventive maintenance</li></ul>	
	h.	PDL stands for		
		<ul><li>(A) Program Design Language</li><li>(C) Program Definition Language</li></ul>	<ul><li>(B) Process Description Language</li><li>(D) Process Design Language</li></ul>	
	i. Coding phase begins immediately after			
		<ul><li>(A) Requirement analysis</li><li>(C) Project planning phase</li></ul>	<ul><li>(B) Software design phase</li><li>(D) Prototyping process</li></ul>	
	<ul> <li>j. Which of the following statements is NOT true about object oriented design?</li> <li>(A) It requires vaulting between phases.</li> <li>(B) It is at a higher level of abstraction.</li> <li>(C) It supports good programming techniques.</li> <li>(D) It promotes reuse.</li> </ul>			
		Answer any FIVE Questions ou Each question carri		
Q.2	a.	Explain spiral model briefly.		(8)
	b.	Describe the management myths and practitioners myth about software.		(8)
Q.3	a. Explain the mechanics of structured analysis.		analysis.	(8)
	b. What are the information need by the analyst? Explain feasibil the project.			
Q.4	a. Explain in detail the COCOMO model.		del.	(10)
	b.	Write the minimum set of guidelines for formal technical reviews.		(6)
<b>Q.5</b> a. Explain software procedural design notations b		E1-i		
	a.	Explain software procedural design	notations briefly.	<b>(8)</b>
		Differentiate between dynamic mod	·	(8)
Q.6			·	
Q.6	b.	Differentiate between dynamic mod	elling and functional modelling.	(8)
Q.6	b. a.	Differentiate between dynamic mod What is Information Hiding?	elling and functional modelling.  ogramming practice briefly.	(8) (4)

- Q.7 a. What is testing and its objectives? Explain white box testing.
  b. Explain the three categories of debugging approaches briefly.
  Q.8 a. Explain the maintenance side effects briefly.
  b. Describe Quick fix model. What are the advantages and disadvantages of this model?
  Q.9 a. What is reverse engineering? Explain the different reasons of reverse
- engineering. (8)
  - b. Define Cohesion. Describe the seven forms of Cohesion. (8)