ROLL NO.	

Code: DC65 Subject: SOFTWARE ENGINEERING

Diplete - CS

Time: 3 Hours

DECEMBER 2014

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 Q.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.
- Any required data not explicitly given, may be suitably assumed and stated.

ing required and not expressly given, may be suitably assumed and suited.						
Q.1	Choose the correct or the best alternative in the following: (2×10)					
	a. FP-based estimation techniques require problem decomposition based on					
	(A) information domain values(B) project schedule(C) software functions(D) process activities					
	b. Software feasibility is based on which of the following:					
	 (A) Business and marketing concerns (B) Scope, constraints, market (C) Technology, finance, time, resource (D) Technical prowess 					
	 c. What types of models are created during software requirements analysis? (A) Functional and behavioural (B) Algorithmic and data structure (C) Architecture and structural (D) Usability and reliability 					
	d. The ISO quality assurance standard that applies to software engineering is					
	(A) ISO 9000 (B) ISO 9001					

(**D**) ISO 9003

(B) Scalability

(**D**) Usability

(C) ISO 9002

(A) Efficiency

(C) Dependability

e. Which of the following is not an attribute of software engineering?

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f.	The spiral model of software development	opment			
	 (A) Ends with the delivery of the software product (B) Is more chaotic than the incremental model (C) Includes project risks evaluation during each iteration (D) All of these 				
g.	Site for Alpha Testing is				
	(A) Software Company(C) Any where	(B) Installation place(D) None of these			
h.	FAST stands for				
	 (A) Functional Application Specification Technique (B) Fast Application Specification Technique (C) Facilitated Application Specification Technique (D) None of these 				
i.	The testing that focuses on the vari	ables is called			
	(A) black box testing(C) data variable testing	(B) white box testing(D) data flow testing			
j.	j. If a program in its functioning has not met user requirements is some way, then it is				
	(A) an error(C) a fault	(B) a failure (D) a defect			
Answer any FIVE Questions out of EIGHT Questions. Each question carries 16 marks.					
a.	What are the key challenges being	faced by software engineering?	(3)		
b.	What is meant by risk managemen	t? Explain risk management process.	(1+8)		
c.	What are the advantages of increm	nental development process?	(4)		
a.	a. Explain the following terms giving suitable example: (i) Functional requirement (ii) Non-functional requirement (iii) Domain requirement				

Q.2

Q.3

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	b.	What are the activities involved during the process of developing a specification of a sub-system interface?	formal (6)
	c.	What is a distributed system? Identify & explain the advantages of distributed approach to systems developments. (2	using a +5)
Q.4	a.	What is Pair Programming? What are the advantages of pair programming?	?(8)
	b.	What is requirement elicitation and analysis in requirement engineering Why is it difficult to elicit and understand stakeholder requirement?	process? (8)
Q.5	a.	Differentiate between two-tier Client Server approach and three-tier Client architecture.	nt Server (6)
	b.	Describe design walk throughs and critical design review.	(4)
	c.	What is stepwise refinement? Discuss partitioning & abstraction.	(6)
Q.6	a.	Explain the reuse maintenance model with the help of a diagram.	(6)
	b.	Explain the following Software Metrics (i) Lines of Code (ii) Function Count (iii) Token Count	×2)
	c.	Differentiate between function oriented design and object oriented design.	(4)
Q.7	a.	What are essentials of a Component Based Software engineering? I problems associated with CBSE.	List few (8)
	b.	Explain the various ways in which object classes can be identified in the identification stage of object-oriented design.	ne object (8)
Q.8	a.	Explain various types of static and dynamic testing tools.	(6)
	b.	Differentiate between failures and faults.	(2)
	c.	What do you understand by black box testing? Explain: (i) Equivalence class (ii) Equivalence partitioning	(8)
Q.9	a.	What is SQA? Discuss different software quality factors.	(6)
	b.	What do you understand by software configuration? Differentiate among reversion and revision of a software product.	elease, (6)
	c.	Write a short note on software quality review and review process.	(4)