ROLL	NO.		

**Subject: SOFTWARE ENGINEERING Code: DC65/DC115** 

## **DiplETE - CS (Current & New Scheme)**

December 2016 **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 Q.1 will be collected by the invigilator after 45 minutes of the

Q.1	Choose the correct or the best alternative in the following:					
	a. A chart that illustrates project schedule.					
	(A) Pie chart	( <b>B</b> ) line chart				
	(C) Gantt chart	( <b>D</b> ) Project chart				
	b. Risk as effect of uncertainty o	n objective has been defined as under.				
	( <b>A</b> ) Iso 21000	<b>(B)</b> Iso31000				
	(C) Iso 21500	<b>(D)</b> Iso 31500				
	c. A set of inputs, behaviour and	outputs of a system is called				
	(A) Function	(B) Requirement				
	(C) Software	( <b>D</b> ) Process				
	d. A good SRS document has fol	llowing characteristic.				
	(A) Consistent	(B) Structured				
	(C) Complete	( <b>D</b> ) All of these				
	e. Which is not a software life cy	e. Which is not a software life cycle model?				
	(A) Iterative waterfall model	(B) Waterfall model				
	(C) Spiral model	( <b>D</b> ) Capability maturity model				
	f. Which of the following is a str	Which of the following is a stronger testing approach?				
	(A) Black box	( <b>B</b> ) White box				
	( <b>C</b> ) Both ( <b>A</b> ) and ( <b>B</b> )	( <b>D</b> ) None of these				
	g. Six sigma approach is associa	Six sigma approach is associated with				
	(A) Risk management	(B) Project planning				
	(C) Requirement gathering	( <b>D</b> ) Quality control				
	h. Software verification and va system?	lidation is basically used for what type of software				
	(A) Risky systems	(B) Mission critical				
	(C) Non mission critical	<b>(D)</b> None of these				

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	i. An example of component mo	odel is					
	(A) Corba	(B) DOM					
	(C) RAD	(D) COCOMO					
	j. What type of structure is implemented by client server model?						
	(A) Line to line	( <b>B</b> ) Distributed					
	(C) Linear	( <b>D</b> ) co planar					
Answer any FIVE Questions out of EIGHT Questions.  Each question carries 16 marks.							
Q.2	a. What is system? Explain type	s of system?	(6)				
	b. Explain iterative waterfall mo	(6)					
	c. Explain risk identification and	l management.	(4)				
Q.3	a. What are the types of requirer	nent? Explain the process of requireme	nt gathering. (8)				
	b. What is SRS? What are qualit	ies of a good and bad SRS?	(8)				
Q.4	a. Explain distributed system arc	chitecture.	(6)				
	b. Explain software prototyping.	(10)					
Q.5	a. Explain cohesion and coupling in detail.		(8)				
	b. Explain the process involved in software reuse.		(8)				
<b>Q.6</b>	a. Explain CBSE process.		(8)				
	b. Explain SCM.		(8)				
Q.7	a. What is black box testing? Ex	plain its types.	(10)				
	<ul><li>b. Explain the following:</li><li>(i) regression testing</li><li>(ii) performance testing</li></ul>		(6)				
Q.8	a. What is Software quality and	(10)					
	b. Explain Halstead's project estimation matrices.						
Q.9	Write short notes on: (i) COCOMO (iii) formal specification	(ii) ISO (iv) RAD model	(4×4)				