ROLL NO.	

Code: AC63/AT63/AC114/AT114 Subject: SOFTWARE ENGINEERING

AMIETE - CS/IT (Current & New Scheme)

Time: 3 Hours	December - 2017	Max. Marks: 100
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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

Q.1	Choose the correct or the best alter	rnative in the following: (2	2×10)	
	±	that explicitly recognize risk analysis is		
	(A) prototyping			
	(B) risk management model			
	(C) spiral model(D) rapid application development	model		
	(b) rapid application development	. moder		
	b. If the requirements stated in the Software Requirement Specification (SRS			
	more than one interpretation, SRS			
	(A) consistence(C) ambiguous SRS	(B) verified SRS		
	(C) amorguous SKS	(D) unambiguous SRS		
	c. An umbrella activity that deals with the management of versions, requirements and release is			
	(A) project Tracking	(B) documentation		
	(C) risk management	(D) software configuration management		
	d. The process of validating the internal structure, logical functions and complexity of a software is called as			
	(A) software review	(B) black box testing		
	(C) white box testing	(D) regression testing		
	e. Which software project sizing appropriate domain characteristics?	proach develops estimates of the information		
	(A) Function point sizing	(B) Change sizing		
	(C) Standard component sizing	(D) Line of code (LOC)		

causes. What are the values of x and y?

(A) 50, 50

(C) 80, 20

f. According to Pareto's principle, x% of defects can be traced to y% of all

(B) 60, 40

(D) 20, 80

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	g.	(A) Place the user in control (B) M (C) Reduce the user's memory load (D) Al	ake the interface consistent	
	h.	Which of the following risk is the failure of as expected? (A) Project risk (B) Pr	a purchased component to perform oduct risk	
			one of these	
	i.	Which of the following is a project schedusoftware development? (A) Program evaluation and review techniques (B) Critical path method (CPM) (C) PERT and CPM (D) Capability maturity model (CMM)		
	j.		ality function development one of these	
		Answer any FIVE Questions out of Each Question carries 16	_	
Q.2	a.	Explain the spiral model with neat sketch.		(8)
	b.	Define Risk and explain the process of softw	vare risk management.	(8)
Q.3	a.	Explain the requirement engineering proces	s with neat sketch.	(12)
	b.	Sketch the use case diagram for an online ti	cket reservation system.	(4)
Q.4	a.	Discuss about the organization of RAD env	ronment with neat sketch.	(8)
	b.	Discuss and represent the structure of an ob-	ject specification.	(8)
Q.5	a.	Explain the object oriented and functio decomposition.	n oriented pipelining for module	(10)
	b.	Discuss about Service oriented architecture	(SOA).	(6)
Q.6	a.	Explain the various object identification tec	hniques in OOD.	(6)
	b.	Discuss about COTS reuse and four probler	ns in applying it for system reuse.	(10)
Q.7	a.	With example, discuss about various error p	rone constructs in programming.	(10)
	b.	Explain the User interface design process w	ith neat sketch.	(6)
Q.8	a.	Explain the structural components of a softv	vare test plan.	(6)
	b.	Write about the metrics for computing example.	project duration and staffing with	(6)
	c.	How algorithmic cost model predicts the pre-	oject cost.	(4)
Q.9	a.	Discuss about Documentation standards for	quality management.	(6)
	b.	Explain the system release management pro	cess and its concepts.	(10)