Enrollment No:	Exam Seat No	0:
	C II SHAH IINIVERS	SITY

Winter Examination-2015

Subject Name: Software Engineering

Subject Code: 4TE05SWE1 Branch: B.Tech (CE,IT)

Time :2:30 To 5:30 **Marks**: 70 Semester: 5 Date:11/12/2015

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.

-	(4) A	Assume suitable data if needed.	
Q-1		Attempt the following questions:	
	a)	Which of the following is not an objective for building analysis models?	(01)
		(a) Define set of software requirements that can be validated	
		(b) Describe customer requirements	
		(c) Develop a solution for the problem	
		(d) Establish basis for software design	
		(e) Define set of software requirements that can be verified	
	b)	The first activity in software project planning is the determination of	(01)
		(a) Software Size (b) Software Scope (c) Software Prize (d) All of the above	(01)
	c)	Software configuration belongs to which of the following activities?	(01)
		a) Umbrella activity b) Economic activity c) None of these d)All of the above	(01)
	d)	If P is risk probability, L is loss, then Risk Exposure (RE) is computed as	(01)
		(a) $RE = P/L$ (b) $RE = P + L$ (c) $RE = P*L$ (d) $RE = 2*P*L$	(01)
	e)	State: True/False?	(01)
		Once we write the program and test it, our work is not over	(01)
	f)	Which two of the following models will not be able to give the desired outcome	
		if user's participation is not involved?	
		(a) Waterfall & Spiral	(01)
		(b) RAD & Spiral	(01)
		(c) RAD & Waterfall	
		(d) RAD & Prototyping	
	g)	If every requirement stated in the Software Requirement Specification (SRS)	
		has only one interpretation, SRS is said to be	(01)
		(a) correct (b) unambiguous (c) consistent (d) verifiable	
	h)	Which of the following items should not be included in the software project	
		management plan?	
		(a) The techniques and case tools to be used	(01)
		(b) Detailed schedules, budgets and resource allocations	(01)
		(c) The life cycle model to be used	
		(d) The organizational structure of the development organization, project	



iny IC	our questions from Q-2 to Q-8	
.n., e.		
	(e) Usage testing.	
	(d) Performance testing	
	(c) Stress testing	(01)
	(b) Security testing	
11)	(a) Recovery testing	
n)	Which tests are designed to confront the program with abnormal situations?	
	(c) Completion of Testing(d) Regression Testing	
	(b) Unit testing	(01)
	(a) Integration testing	(0.4)
m)	What is normally considered as an adjunct to the coding step	
	(e) Stamp coupling.	
	(d) Data coupling	
	(c) Control coupling	. ,
	(b) Common coupling	(01)
	(a) Content coupling	
-/	composite data item?	
1)	What do you call when two modules are coupled, when they communicate via a	
	(e) All of the above.	
	(d) Competitors may market a fully functional lower-cost equivalent package	
	(c) Technology changes may render the product obsolete	(01)
	a real-time system) may go bankrupt	(01)
	(a) Key personnel may resign before the product is complete(b) The manufacturer of critical components (e.g. the hardware associated with	
k)	An example of the risk involved in software development is	
1-1	(e) Strongly cohesive and weakly coupled. An example of the risk involved in software development is	
	(d) Strongly coupled and strongly cohesive	
	(c) Strongly coupled and Weakly cohesive	` ,
	(b) Weakly cohesive	(01)
	(a) Strongly coupled	
j)	A design is said to be a good design if the components are	
	(e) Data.	
	(d) Stamp	
	(c) Control	
	(b) Common	(01)
	(a) Content	
ĺ	coupling.	
i)	If a control switch is passed as an argument this is an example of	
	(e) None of the above.	
	responsibilities, managerial objectives and priorities	

Attempt a

Q-2 **Attempt all questions** (14)

Explain Spiral model. Also explain how does it differ from (a) Software Prototyping model?



		tasks.	
Q-3		Attempt all questions	
	(a)	Explain FAST approach for requirement gathering.	(05)
	(b)	What is the need for feasibility study? Explain different types of feasibility study.	(05)
	(c)	Explain Software testing principles.	(04)
Q-4		Attempt all questions	(14)
	(a)	Prepare SRS document for Hotel management system.	
	(b)	Explain common process framework.	
Q-5		Attempt all questions	(14)
•	(a)	What is W5HH principle? Explain.	` /
	(b)	Write a note on: Risk Management.	
Q-6		Attempt all questions	
	(a)	Prepare an E-R diagram for a simple Library Management System.	(06)
	(b)	Explain the differences between coupling and cohesion.	(04)
	(c)	Differentiate alpha testing and beta testing.	(04)
Q-7		Attempt all questions	(14)
	(a)	Explain Black box testing and White box testing. Explain any one technique to carry out each testing.	
	(b)	Write a note on software Architectural Patterns.	
Q-8		Attempt all questions	
•	(a)	Write a note on COCOMO model.	(06)
	(b)	Explain Integration Testing Method.	(05)
	(c)	Justify statement: Software engineering is a layered technology.	(03)

What is requirement engineering? List and Explain requirement engineering

(b)

