Enrollment No: _____   Exam Seat No: _____

C. U. SHAH UNIVERSITY
Winter Examination-2019

Subject Name: Software Engineering

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

Semester: 5   **Date: 27/11/2019**   **Time: 10:30 To 01:30**   **Marks: 70**

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) Assume suitable data if needed.

Q-1   **Attempt the following questions:**   **(14)**
   a) _____ is a collection of software engineering work tasks, milestones, and deliverable that must be accomplished to complete a particular project.
   b) In function point analysis, value adjustment factors used to rate the system are _____
   A) 10 B) 14C) 20 D) 12
   c) Which one is not a risk management activity?
   A) Risk identification B) Risk generation
   C) Risk Monitoring D) Risk Mitigation
   d) Define: Software Process
   e) What are the merits of incremental model?
   f) What are the benefits of prototyping?
   g) What is ERD?
   h) What is a cohesive module?
   i) What is equivalence partitioning?
   j) What is meant by unit testing?
   k) List out the task regions in the Spiral model.
   l) What is the use of CMM?
   m) Define: Data dictionary
   n) Distinguish between alpha and beta testing.

Attempt any four questions from Q-2 to Q-8

Q-2   **Attempt all questions**   **(14)**
   a) Explain Waterfall process model.   **(7)**
   b) Explain Requirement Engineering Tasks.   **(7)**

Q-3   Attempt all questions   **(14)**
   a) Explain COCOMO model for project estimation.   **(5)**
   b) List the different Agile Process Model and Explain any one with suitable example.   **(5)**
   c) Explain Software Engineering as a Layered Technology.   **(4)**

Q-4		Attempt all questions	(14)
	a)	What is architectural design? Enlist different style and patterns of architecture.	(5)
	b)	Explain Formal Technical Review.	(5)
	c)	What is the importance of SQA? Explain the SQA activities.	(4)

Q-5		Attempt all questions	(14)
	a)	What is Object Oriented Design of a system? Draw the Use case diagram and Class diagram for Library Management system.	(7)
	b)	Explain various coding standard.	(7)

Q-6		Attempt all questions	(14)
	a)	Write short note on W5HH Principle.	(7)
	b)	Explain Integration testing.	(7)

Q-7		Attempt all questions	(14)
	a)	Compare Coupling and Cohesion. Explain different types of Coupling and its effects on software modules.	(7)
	b)	What is User Interface? Explain the design rules for UI.	(7)

Q-8		Attempt all questions	(14)
	a)	Compare Prototype and RAD Process Model.	(5)
	b)	Write short notes on Reverse Engineering.	(5)
	c)	Explain Software as a Service.	(4)