

Enrollment No: \_\_\_\_\_ Exam Seat No: \_\_\_\_\_

# C.U.SHAH UNIVERSITY

## Summer Examination-2018

**Subject Name: Software Engineering**

**Subject Code: 4TE05SWE1**

**Branch: B.Tech (CE,IT)**

**Semester: 5**

**Date: 03/04/2018**

**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.
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**Q-1 Attempt the following questions: (14)**

1. Spiral Model has user involvement in all its phases.  
A) True B) False
2. A COCOMO model is \_\_\_\_\_  
A) Common Cost Estimation Model B) Constructive Cost Estimation Model  
C) Complete Cost Estimation Model D) Comprehensive Cost Estimation Model
3. Once we write the program and test it, our work is over.  
A) True B) False
4. What is normally considered as an adjunct to the coding step  
A) Integration testing B) Regression Testing  
C) Completion of Testing D) Unit testing
5. If every requirement stated in the Software Requirement Specification (SRS) has only one interpretation, SRS is said to be  
A) Unambiguous B) Consistent C) Verifiable D) None of the above
6. ER model shows the \_\_\_\_\_  
A) Static View B) Functional View C) Dynamic View D) All of above
7. If requirements are easily understandable and defined then which model is best suited?  
A) Spiral model B) Waterfall model  
C) Prototyping model D) None of the above
8. Software quality assurance is an umbrella activity.  
A) True B) False
9. The logical association among entities is called relationship.  
A) True B) False
10. Which is the characteristics of Software risk?  
A) Uncertainty B) Loss C) Both A & B D) None of the Above
11. Grouping of all functionally related elements is known as \_\_\_\_\_.  
A) Cohesion B) Coupling C) Both A & B D) None of the Above



12. If P is risk probability, L is loss, then Risk Exposure (RE) is computed as\_\_\_\_\_
- A)  $RE = P/L$  B)  $RE = P + L$  C)  $RE = P*L$  D)  $RE = 2* P *L$
13. Who writes SRS(Software Requirement Specification)
- A) System Developer B) System Tester  
C) System Analyst D) None of the Above
14. What is full form of SDLC?
- A) System Design Life cycle B) Software Design Life Cycle  
C) System Development Life Cycle D) Software Development Life Cycle

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

- Q-2 Attempt all questions**
- a) Write short note on waterfall model with the help of diagram (7)  
b) What is requirement engineering? List and Explain requirement engineering tasks (7)
- Q-3 Attempt all questions**
- a) What is ER Diagram ? List and explain symbols used for ER Diagram (7)  
b) Prepare SRS document for Library Management System (7)
- Q-4 Attempt all questions**
- a) Write short note on feasibility study (7)  
b) Write a note on software Architectural Patterns (7)
- Q-5 Attempt all questions**
- a) Explain White box and Black box testing (7)  
b) Explain Unit Testing and Integration Testing in detail (7)
- Q-6 Attempt all questions**
- a) Write short note on Risk Management (5)  
b) Draw use case diagram of ATM Machine (5)  
c) Explain Software Engineering as a Layered Technology (4)
- Q-7 Attempt all questions**
- a) Write short note on W5HH Principle (7)  
b) Explain common process framework (7)
- Q-8 Attempt all questions**
- a) Write short note on COCOMO model (7)  
b) Draw Data Flow Diagram (DFD) for Library Management System (7)

