Enrollment No: _____ Exam Seat No:_____

C.U.SHAH UNIVERSITY

Winter Examination-2019

Subject Name : Software Engineering

Subject Code : 4CS04ISE1 **Branch: B.Sc.IT.**

Semester: 4 **Date: 19/09/2019** **Time: 02:30 To 05:30** **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 following MCQs. **14**

1) SDLC means_____
   a) System Design Life Cycle b) Software Development Life Cycle
   c) System Define Life Cycle d) None of these

2) Software engineering layers contains _____
   a) Tools b) Methods
   c) Process d) All of the above

3) Classical model for Software development is ____
   a) waterfall b) spiral
   c) prototype d) none of above

4) RAD means _____
   a) Random Application Development b) Rapid Application Development
   c) Rapid Active Development d) Rapid Active Designing

5) If there is a relationship established between objects, then modality value is ___
   a) -1 b) 1
   c) 0 d) None of these

6) The set of [I,S,O] is known as _____.
   a) Test case b) Test suite
   c) Testing d) None of these

7) Which is true in software development process?
   a) High cohesion low coupling b) low cohesion high coupling
   c) Both A and B d) None of the above

8) Composite data item used in _____ coupling

a) stamp b) control
c) common d) All of the above

9) Are we building the right product? means___

a) Verification b) Validation
c) Testing d) None of these

10) Concept for Software quality are _____

a) portability b) usability
c) correctness d) all of the above

11) LOC means_____

a) List of control b) Lines of Code
c) List of Code d) None of the above.

12) Actors available in _____ diagram

a) Activity b) Class
c) Use case d) None of the above.

13) Number of input, inquiry parameters used in _____.

a) Function Point b) Lines of Code
c) Both A and B d) None of the above

14) UML means____.

a) Unified modeling language b) Uniform Modified Language
c) Unique modeling language d) None of these

Attempt any FOUR from following.

Q.-2 Attempt following. **14**

a) Write a note on : Classical waterfall model. 7
b) Explain Software Engineering – A layered Technology. 7

Q.-3 Attempt following. **14**

a) Write a note on : Spiral model. 7
b) What is COCOMO model? Explain its all types. 7

Q.-4 Attempt following. **14**

a) What is prototype? Explain different steps of prototyping model. 7
b) Why coupling is needed? Explain all types of coupling. 7

Q.-5 Attempt following. **14**

a) Explain class diagram with suitable example. 7

b) Define White box testing? Explain all types of white box testing. 7

Q.-6 Attempt following. **14**

a) Define cohesion? Explain different types of cohesion. 7
b) Define LOC and FP. Write a note on Function point and LOC. 7

Q.-7 Attempt following. **14**

a) Define Test case. Write a note on: Black box testing. 7
b) Define Risk. How to handle risk in software development process? 7

Q.-8 Attempt following. **14**

a) Define Software Re-engineering. Write a note on software restructuring. 7
b) What is activity diagram? Explain Activity diagram with suitable example. 7