

Enrollment No: \_\_\_\_\_

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

# C.U.SHAH UNIVERSITY

## Summer Examination-2022

**Subject Name : Software Engineering**

**Subject Code : 4CS04ISE1**

**Branch: B.Sc.I.T.**

**Semester: 4**

**Date: 06/05/2022**

**Time: 11:00 To 02:00**

**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 following MCQs.**

**14**

- 1) In 4P, P means \_\_\_\_\_
  - a) Process
  - b) Project
  - c) People
  - d) All of these
- 2) \_\_\_\_\_ do not have good GUI and proper documentation.
  - a) Program
  - b) Software Product
  - c) Application
  - d) None of the above
- 3) \_\_\_\_\_ software is a collection of programs written to service other programs.
  - a) Embedded
  - b) Application
  - c) System
  - d) All of above
- 4) SRS means \_\_\_\_\_
  - a) Software Requirement System
  - b) Software Reading System
  - c) Software Requirement Specification
  - d) Software Requirement Source
- 5) If there is a relationship established between objects, then modality value is \_\_\_\_
  - a) -1
  - b) 1
  - c) 0
  - d) None of these
- 6) \_\_\_\_\_ is a generalization of set of classes.
  - a) Super class
  - b) Sub class
  - c) Both A and B
  - d) None of the above
- 7) \_\_\_\_\_ measure functional strength of one module and other modules in system.
  - a) Coupling
  - b) Cohesion
  - c) Both A and B
  - d) None of the above



- 8) \_\_\_\_\_ is lower level of coupling.
- |            |                      |
|------------|----------------------|
| a) Data    | b) Stamp             |
| c) Content | d) None of the above |
- 9) “*We have developed the product right*”, it is known as\_\_\_\_\_
- |                 |                  |
|-----------------|------------------|
| a) Verification | b) Validation    |
| c) Quality      | d) None of these |
- 10) Software Project planning contains\_\_\_\_\_
- |                 |                     |
|-----------------|---------------------|
| a) Project Size | b) Cost             |
| c) Duration     | d) all of the above |
- 11) In project size estimation metrics, FP means\_\_\_\_\_
- |                   |                       |
|-------------------|-----------------------|
| a) Function Print | b) Function Point     |
| c) Future Print   | d) None of the above. |
- 12) Software reliability is also known as \_\_\_\_\_ reliability
- |               |                       |
|---------------|-----------------------|
| a) Structural | b) Operational        |
| c) Testing    | d) None of the above. |
- 13) WBS means \_\_\_\_\_
- |                             |                          |
|-----------------------------|--------------------------|
| a) Work Breakdown Structure | b) Work Breakdown System |
| c) Work Basic Structure     | 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) Define RAD. Write a note on: RAD model with advantages.                           | 7 |
| b) Define Software Engineering. Explain Software Engineering – A layered Technology. | 7 |

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

- |  |   |
|--|---|
| a) Define coupling. Explain different types of coupling.               | 7 |
| b) Write a note on: Waterfall model with advantages and disadvantages. | 7 |

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

- |   |   |
|---|---|
| a) What is Data modeling? Explain data object, attributes, relationships. | 7 |
| b) Define Testing. Write a note on: Unit Testing.                         | 7 |

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

- |  |   |
|--|---|
| a) Define White box testing? Explain all types of white box testing. | 7 |
|--|---|



	b) Define Project planning. Explain LOC and Function Point.	7
<b>Q.-6</b>	<b>Attempt following.</b>	<b>14</b>
	a) Write a note on: COCOMO Model.	7
	b) Define Activity. Explain Activity diagram with suitable example.	7
<b>Q.-7</b>	<b>Attempt following.</b>	<b>14</b>
	a) Define Risk. How to handle risk in software development process?	7
	b) Define Software Re-engineering. Write a note on software restructuring.	7
<b>Q.-8</b>	<b>Attempt following.</b>	<b>14</b>
	a) Define UML. Explain use case diagram with suitable example.	7
	b) Define ISO Standard? Why we use it? Explain all types of ISO standards.	7

