

Enrollment No: _____

Exam Seat No: _____

C. U. SHAH UNIVERSITY

Winter Examination-2021

Subject Name: Software Engineering

Subject Code: 4TE05SWE1

Branch: B.Tech (CE)

Semester: 5

Date: 15/12/2021

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 the following questions:

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|----|---|------|
| a) | What is the difference between validation and verification? | (01) |
| b) | What is test-case? | (01) |
| c) | What is level-0 DFD? | (01) |
| d) | What is software maintenance? | (01) |
| e) | What is feasibility study? | (01) |
| f) | List out at least two differences between software and program. | (01) |
| g) | Define: Software process. | (01) |
| h) | What is ERD? | (01) |
| i) | What is the use of CMM? | (01) |
| j) | When can we use spiral model? | (01) |
| k) | Distinguish between alpha and beta testing. | (01) |
| l) | What is the meaning of fan in and fan out in software design? | (01) |
| m) | Define: Data dictionary. | (01) |
| n) | List out two techniques of requirement gathering. | (01) |

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

Q-2 Attempt all questions

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|-----|--|------|
| (a) | Explain Capability Maturity Model (CMM) in detail. | (07) |
| (b) | Critically compare procedural design and object-oriented design. | (07) |

Q-3 Attempt all questions

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|-----|---|------|
| (a) | Explain Waterfall process model. | (07) |
| (b) | What is process model? Explain incremental model in detail. | (07) |

Q-4 Attempt all questions

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|-----|--|------|
| (a) | Write a note on W5HH principle. | (07) |
| (b) | Explain Requirement Engineering Tasks. | (07) |



- Q-5 Attempt all questions**
- (a) Explain various coding standards. **(07)**
 - (b) Explain COCOMO estimation method with suitable example. **(07)**
- Q-6 Attempt all questions**
- (a) Explain code review process in detail. **(07)**
 - (b) Discuss about black box testing with its types. **(07)**
- Q-7 Attempt all questions**
- (a) Compare coupling and cohesion. Explain different types of coupling and its effects on software modules. **(07)**
 - (b) What is user interface? Explain the design rules for UI. **(07)**
- Q-8 Attempt all questions**
- (a) Explain ER diagram with suitable example. **(07)**
 - (b) Explain Data dictionary with suitable example. **(07)**

