

C.U.SHAH UNIVERSITY

Summer Examination-2019

Subject Name : Software Engineering

Subject Code : 4TE05SWE1

Branch: B.Tech (CE)

Semester : 5

Date : 26/03/2019

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.
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- Q-1 Attempt the following questions:**
- a) What is the difference between software and program? (01)
 - b) What is software engineering? (01)
 - c) What is the difference between validation and verification? (01)
 - d) What is corrective maintenance? (01)
 - e) What is throw away prototype? (01)
 - f) When can we use spiral model? (01)
 - g) What is driver and stub in unit testing? (01)
 - h) List out various types of feasibility study. (01)
 - i) Define the term functional requirement. (01)
 - j) What is stress testing? (01)
 - k) List out various characteristics of software requirement specification document. (01)
 - l) What is test-case? (01)
 - m) What is the meaning of fan in and fan out in software design? (01)
 - n) List out various techniques of requirement gathering. (01)

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

- Q-2 Attempt all questions**
- (a) Explain various myths regarding software engineering. (07)
 - (b) Discuss about various reasons of project failure. (07)
- Q-3 Attempt all questions**
- (a) What is process model? Explain incremental model in detail. (07)
 - (b) Explain W⁵HH principles for project management. (07)
- Q-4 Attempt all questions**
- (a) Explain Capability Maturity Model (CMM) in detail. (07)
 - (b) Critically compare Procedural Design and Object Oriented Design. (07)
- Q-5 Attempt all questions**
- (a) Design a sequence diagram for Online ticket booking system. (07)
 - (b) What is Cohesion? Explain it with its types. (07)
- Q-6 Attempt all questions**
- (a) What is a data dictionary? Design data dictionary for Hospital management system. (07)



- Q-7**
- (b) Explain various types of design model. (07)
- Attempt all questions**
- (a) Do as directed. (07)
- 1) Explain various characteristics of software and hardware.
- 2) Explain various applications of software engineering.
- (b) Explain COCOMO Estimation method with suitable example. (07)
- Q-8**
- Attempt all questions**
- (a) Explain Code review process in detail. (07)
- (b) Discuss about black box testing with its types. (07)

