

Enrollment No: _____

Exam Seat No: _____

C. U. SHAH UNIVERSITY

Winter Examination-2019

Subject Name: Software Testing and Quality Assurance

Subject Code: 4TE07STQ1

Branch: B.Tech (CE)

Semester : 7

Date : 22/11/2019

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: (14)

- a) What are verification and validation?
- b) What is Test case?
- c) Define Failure.
- d) What is the difference between build and release?
- e) What is Agile testing and what is the importance of Agile testing?
- f) What are the automation challenges that SQA team faces while testing?
- g) What is traceability matrix?
- h) What is Equivalence partitioning testing?
- i) What is the difference between static and dynamic testing?
- j) What are the best practices for software quality assurance?
- k) Define CMM.
- l) What is Alpha testing?
- m) Write Down a full Form of MTTF.
- n) What is the use of ISO 9000?

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

Q-2 Attempt all questions (14)

- a) Explain Black-box Testing techniques with example. (07)
- b) Describe code review process of static unit testing in detail. (07)

Q-3 Attempt all questions (14)

- a) What is software quality? List five views of quality and explain in short (07)
- b) Explain White box testing with example. (07)

Q-4 Attempt all questions (14)

- a) What do you mean by data flow anomaly? Explain why program (07)



- anomalies need not lead to program failure?
- b)** Draw and explain V model for development and testing phases of a system. (07)
- Q-5** **Attempt all questions** (14)
- a)** List common approaches to performing system integration. Discuss the advantages & disadvantages of top-down and bottom-up approaches to integration testing. (07)
- b)** Explain in brief: off-the-shelf component testing. (07)
- Q-6** **Attempt all questions** (14)
- a)** Write a note on Sandwich approach and big bang approach of software integration. (07)
- b)** What are OTS components? Explain testing for these components. (07)
- Q-7** **Attempt all questions** (14)
- a)** Explain Different Software Quality Attributes. (07)
- b)** Briefly Explain the GUI test (07)
- Q-8** **Attempt all questions** (14)
- a)** Write a Short Note on “Six Sigma”. (07)
- b)** Briefly Explain the Requirement Identification. (07)

