

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2018

Subject Name : System Analysis and Design & Unified Modelling Language

Subject Code : 4TE04SAD1

Branch: B.Tech (CE, IT)

Semester : 4

Date : 03/05/2018

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 decision tree? (01)
- b) What is specialization in class diagram? (01)
- c) What is alpha testing? (01)
- d) What is the difference between validation and verification? (01)
- e) Define the term feasibility study. (01)
- f) What is metadata? (01)
- g) What is the difference between data, information and knowledge? (01)
- h) List various roles are played by system analyst. (01)
- i) What do you mean by maintenance? (01)
- j) What is the use of fork and join in activity diagram? (01)
- k) What is abstract system? (01)
- l) What is observation? (01)
- m) What do you mean by pseudo code? (01)
- n) What do you mean by swim lane diagram? (01)

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

Q-2

Attempt all questions

- a) Attempt the following questions: (08)
 - 1) Explain role of Business Information System in Organization.
 - 2) Explain various types of users of a system.
- b) Explain decision table with suitable example. (06)

Q-3

Attempt all questions

- a) Explain Structured Analysis in SSADM with its advantages. (06)
- b) Attempt the following questions: (08)
 - 1) Explain various characteristics and elements of a system.
 - 2) Explain System survey.

Q-4

Attempt all questions

- a) What is information? Explain various categories of information related to managerial levels. (07)
- b) What is Requirements Determination? Explain major activities related with Requirements Determination. (07)



- Q-5** **Attempt all questions**
- a) Draw Class diagram and Physical diagram for Online Railway ticket reservation system. **(07)**
 - b) Explain Activity diagram with its symbols and suitable example. **(07)**
- Q-6** **Attempt all questions**
- a) Draw State diagram and Use case diagram for Online car rental system. **(07)**
 - b) Explain Sequence diagram with its symbols and suitable example. **(07)**
- Q-7** **Attempt all questions**
- a) What is UML? Explain Inception, Elaboration, Construction, and Transition with respect to UML. **(07)**
 - b) Explain Black box testing and White box testing in detail. **(07)**
- Q-8** **Attempt all questions**
- a) Explain Interviewing and Questionnaires as a fact gathering techniques with suitable example. **(07)**
 - b) Explain objectives and design principles of input and output design. **(07)**

