

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

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

Q-3

Attempt all questions

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

Q-4

Attempt all questions

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|----|---|------|
| 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)

