

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2017

Subject Name : System Analysis and Design & Unified Modeling Language

Subject Code : 4TE04SAD1

Branch: B.Tech (CE,IT)

Semester : 4

Date : 11/05/2017

Time : 02:00 To 05:00

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:

- | | |
|--|------|
| (a) List various characteristics of system. | (01) |
| (b) What is Cost Benefit Analysis? | (01) |
| (c) What is system evaluation? | (01) |
| (d) What do you mean by maintenance in Software Development Life Cycle (SDLC)? | (01) |
| (e) Give the basic difference of Data and Information. | (01) |
| (f) Define the term intangible benefit. | (01) |
| (g) What is Structured Analysis? | (01) |
| (h) What is regression testing? | (01) |
| (i) What do you mean by relationship in class diagram? | (01) |
| (j) Why we use fork and join in activity diagram? | (01) |
| (k) List various structured diagrams of Unified Modeling Language (UML). | (01) |
| (l) What is white box testing? | (01) |
| (m) Define the term informal system. | (01) |
| (n) What do you mean by decision tree? | (01) |

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

Q-2

Attempt all questions

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|---|------|
| (a) Write a detailed note on System analyst with various characteristics. | (07) |
| (b) What is UML? Explain UML with its various model. | (07) |

Q-3

Attempt all questions

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|---|------|
| (a) Explain different types of Information system. | (07) |
| (b) Explain following with suitable example
(1) Verification and Validation. (2) Alpha Testing and Beta testing. | (07) |

Q-4

Attempt all questions

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|---|------|
| (a) Explain Feasibility study with its types. Discuss the needs of Feasibility study. | (07) |
| (b) Draw Sequence diagram and State diagram for Online examination system. | (07) |



- Q-5** **Attempt all questions**
- (a) (1) Explain Association & Specialization in Class Diagram. (07)
(2) Give the differences between End user and Customer.
- (b) What is DFD? Explain various rules for leveling of Data Flow Diagram with example. (07)
- Q-6** **Attempt all questions**
- (a) Explain different Fact Finding Techniques. (07)
- (b) Explain objectives of Input Design. Prepare Graphical User Interface (GUI) design for E-mail Service Registration and Sign-in page with its constraints. (07)
- Q-7** **Attempt all questions**
- (a) Discuss in detail Structured Design in SSADM. (07)
- (b) What is Decision table? Explain it with suitable example. (07)
- Q-8** **Attempt all questions**
- (a) Explain Include and Extends & Generalization in Use case diagram with example. (07)
- (b) Explain Importance of Layout & Caption in design of system. (07)

