

Enrollment No: \_\_\_\_\_

Exam Seat No.: \_\_\_\_\_

# C. U. SHAH UNIVERSITY

## Winter Examination-2021

**Subject Name: System Analysis and Design**

**Subject Code: 4CS03ISA1**

**Branch: B.Sc.I.T.**

**Semester : 3**

**Date : 16/12/2021**

**Time : 02:30 To 05:30**

**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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**Que-1 Attempt all the following short questions.**

**[14]**

1. Give the full form of SAD.
2. Define open system.
3. What is structured analysis?
4. Give the full form of SDLC.
5. Define testing.
6. Give full form of DSS.
7. What is verification?
8. Explain database in short.
9. Define transection file.
10. Draw the symbol used to show process in DFD.
11. What is crystal report?
12. What do you mean by structured interview?
13. Define validation.
14. Give the full form of SQA.

**Attempt any four questions from Que-2 to Que-8**

**Que-2 Attempt all questions.**

**[14]**

1. What is SDLC? Explain different stages of it in detail. [7]
2. What is information system? Discuss TPS and MIS in detail. [7]

**Que-3 Attempt all questions.**

**[14]**

1. Define fact finding technique. Discuss interview and record review techniques. [7]
2. Explain decision tree with an example. [7]

**Que-4 Attempt all questions.**

**[14]**

1. What is coupling and cohesion? Explain in detail. [5]



2. Discuss unit and system testing with their advantages. [5]
3. Explain terminologies: Record, Primary key, File & Database. [4]

**Que-5 Attempt all questions. [14]**

1. Define training. Explain various training methods. [7]
2. Write a note on methods of file organization. [7]

**Que-6 Attempt all questions. [14]**

1. Discuss input validation in detail. [7]
2. What is DFD? Explain physical and logical DFD. [7]

**Que-7 Attempt all questions. [14]**

1. Explain data dictionary with its objectives. [7]
2. What is input design? Explain its objective. [7]

**Que-8 Attempt all questions. [14]**

1. What is user? Explain types of users. [7]
2. Explain roles and tasks of system analyst. [7]

