Model Paper "System Analysis & Design"
For DIT Semester- II
Annual Examinations 2013 & Onward
<u>Objective</u>
<u>Part - A</u>

Roll No:_____

Time : 20 minutes   Marks: 10

Note: This part is compulsory. It should be attempted on the question paper and returned to the supervisory staff after the prescribed time. Cutting overwriting and use of led pencil is not allowed. Supervisory staff is required to attach it with the answer book.

Q.1**. Choose the correct answer and encircle** it.   10X1 = 10

1. How many steps are in the systems development life cycle (SDLC)?
   A. 4
   B. 5
   C. 6
   D. 10

2. **The first step in the systems development life cycle (SDLC) is:**
   A. Analysis.
   B. Design.
   C. Problem/Opportunity Identification.
   D. Development and Documentation.

3. **Most modern software applications enable you to customize and automate various features using small custom-built "miniprograms" called:**
   A. macros.
   B. code.
   C. routines.
   D. subroutines.

4. **The organized process or set of steps that needs to be followed to develop an information system is known as the:**
   A. analytical cycle.
   B. design cycle.
   C. program specification.
   D. system development life cycle.

5. **How many steps are in the program development life cycle (PDLC)?**
   A. 4
   B. 5
   C. 6
   D. 10

6. **The make-or-buy decision is associated with the _____ step in the SDLC.**
   A. Problem/Opportunity Identification
   B. Design
   C. Analysis
   D. Development and Documentation

7. **In the Analysis phase, the development of the _____ occurs, which is a clear statement of the goals and objectives of the project.**
   A. documentation
   B. flowchart
   C. program specification
   D. design

8. **Actual programming of software code is done during the _____ step in the SDLC.**
   A. Maintenance and Evaluation
   B. Design
   C. Analysis
   D. Development and Documentation

9. **Enhancements, upgrades, and bug fixes are done during the _____ step in the SDLC.**
   A. Maintenance and Evaluation
   B. Problem/Opportunity Identification
   C. Design
   D. Development and Documentation

10. **The _____ determines whether the project should go forward.**
   A. feasibility assessment
   B. opportunity identification
   C. system evaluation
   D. program specification

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<u>Subjective</u>
<u>Part - B</u>

Time : 2:10 Hours   Marks: 40

<u>Section -I</u>

Q.1.   **Write the short answer to any twelve (12) from the following questions.**

12X2=24

1.   What is system?

2.   What are the typical components of a system?

3.   Define system analysis.

4.   Define system design.

5.   Define role of system analyst in a small firm.

6.   Five Full form of SDLC

7.   What is the difference between open and closed system.

8.   What is feasibility?

9.   What is DFD?

10.   What is prototype?

11.   What is output of the Analysis phase?

12.   Describe design of input.

13.   Describe design of output.

14.   What is System Testing?

15.   What is Debugging?

16.   What is the difference between user manual & technical manual?

17.   What are input stages?

18.   What is change over procedure?

<u>Section –II</u>

<u>Long Questions</u>

Note: Attempt any two (2) questions.   8X2=16

Q2.   What do you mean by system analysis and desing? Describe the type of system and what are the elements of system.

Q3.   What is SDLC? Describe the different phases of SDLC. How is DFD differnet from FlowChat?

Q4.   a)   what is cost and benefit Analysis?

b)   Explain the concepts of testing and debugging