

Seat No. : _____

AR-119

April-2022

M.Sc. (CA & IT), Sem.-IV

System Analysis and Design

Time : 2 Hours]

[Max. Marks : 50

SECTION – I

Attempt any **three** questions out of **5** questions.

1. (A) Answer the following :
 - (1) Explain in brief reasons for system project initiation. **3**
 - (2) Explain source of project request. **4**(B) Answer the Following
 - (1) State different fact-finding techniques and explain one of them. **3**
 - (2) Explain in brief activates of classical system development life cycle. **4**

2. (A) Answer the Following :
 - (1) State tools for the data flow analysis and explain one of them. **3**
 - (2) State different types of committees for selecting and reviewing the project and explain in brief two of them. **4**(B) Answer the Following :
 - (1) Explain decision table. **3**
 - (2) Explain benefits and weakness of CASE tools. **4**

3. (A) Answer the Following :
 - (1) When to use graphics in presenting information ? **3**
 - (2) List common method for acquisition of payment for a computer system, explain any two of them. **4**(B) Answer the following :
 - (1) Explain coding method for input design in brief. **3**
 - (2) Define conversion. List them and explain any two of them in detail. **4**

4. (A) Answer the following :
 - (1) Discuss Guidelines for Successful Implementation of MIS. **3**
 - (2) What is DSS, explain with appropriate example. List the benefits of DSS. **4**

- (B) Answer the Following :
- (1) Write a short note on GDSS. 3
- (2) Explain Knowledge management processes. Differentiate between explicit and tacit knowledge with example. 4
5. (A) Draw use case diagram for library management system using extend, include and generalization, also explain purpose of symbol used in USE CASE diagram. What information system analyst can retrieve from use-case diagram ? 7
- (B) Draw activity diagram for Railway reservation system; also explain purpose of symbol used in Activity diagram. What information system analyst can retrieve from activity diagram ? 7

SECTION – II
(Compulsory)

Attempt any **eight** :

8

- (1) _____ contains mainly of a graphical language to represent the concepts that we require in the development of an object-oriented information system.
- (a) UML (b) Nodes
(c) Diagrams (d) None of the above
- (2) Managing the design process for institutional applications, _____ activities are supposed to perform.
- (a) Obtain the deliverables,
(b) Monitor the design process,
(c) Select H/W and S/W, Involve users
(d) All
- (3) _____ are the methods of estimating project development times.
- (a) Historical method (b) Intuitive method
(c) Both (a) and (b) (d) None of (a) and (b)
- (4) _____ factors are require to be considered in hardware selection.
- (a) Internal memory size
(b) Cycle speed of system processing
(c) Characteristic of display and communication equipment.
(d) All
- (5) _____ is used for the development of the MIS.
- (a) Prototype Approach (b) Life Cycle Approach
(c) Both the Approach (d) None of the given Approach
- (6) _____ is the skill required in a system analyst.
- (a) Interpersonal skill (b) Technical
(c) Both (a) and (b) (d) None of (a) and (b)

- (7) _____ is the application of synthetic programs to emulate the actual processing work handled by a computer system.
- (a) Benchmarking
 - (b) Prototyping
 - (c) None
 - (d) Both
- (8) The _____ of the software system should include the ability to meet changing requirements and varying user needs.
- (a) Flexibility
 - (b) Auditing
 - (c) Reliability
 - (d) None
- (9) Types of Output are
- (a) Report
 - (b) Document (Invoice, Contract, Appointment letter)
 - (c) Message
 - (d) All
- (10) Logical DFD models show _____ a system is or does. They are independent of any technical implementation.
- (a) How
 - (b) What
 - (c) Where
 - (d) Why
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