

AE-1336

PGDCA (New Course)

Term End Examination, 2016-17

SYSTEM ANALYSIS AND DESIGN

Time : Three Hours] [*Maximum Marks* : 100
[*Minimum Pass Marks* : 40

Note : Section-A is compulsory and answer any **five** questions from Section-B, selecting **one** question from each Unit. The figures in the right-hand margin indicate marks.

Section-A

1. Choose the correct answer of the following : 30
 - (a) The MIS should be developed by :
 - (i) the manager
 - (ii) the information specialist
 - (iii) Both (i) and (ii)
 - (iv) Neither (i) nor (ii)
 - (b) Which of the following is not a level of information handling ?
 - (i) Decision Support System

(2)

- (ii) Operation Assistance System
 - (iii) Transaction Processing System
 - (iv) Office Automation System
- (c) Database preparation would be most difficult in a :
- (i) Super market
 - (ii) Hospital
 - (iii) College or University
 - (iv) Bank
- (d) Standards are provided by :
- (i) User groups
 - (ii) Computer vendors
 - (iii) Standard organizations
 - (iv) All of the above
- (e) To which phase of SDLC is file conversion related ?
- (i) System Implementation
 - (ii) System Analysis
 - (iii) System Development
 - (iv) System Design

(3)

- (f) Which of the following activities does not belong to the Implementation phase of the SDLC ?
- (i) File conversion
 - (ii) Program testing
 - (iii) User training
 - (iv) All of the above
- (g) Which of the following is not considered as a tool at the System Design Phase ?
- (i) Data flow diagram
 - (ii) Decision table
 - (iii) Pie chart
 - (iv) System flowchart
- (h) The data flow diagram shows :
- (i) The flow of data
 - (ii) The processes
 - (iii) The areas where they are stored
 - (iv) All of the above
- (i) A system investigation may result from :
- (i) An analysis investigation
 - (ii) A scheduled system reviewed

(4)

- (iii) A manager's formal request
 - (iv) All of the above
- (j) During the maintenance phase ?
- (i) system requirements are established
 - (ii) system analysis is carried out
 - (iii) programs are tested
 - (iv) All of the above
- (k) Which of the following affects the extent to which you are involved with SDLC in your company ?
- (i) size of the organisation
 - (ii) your job description
 - (iii) your relevant experience
 - (iv) All of the above
- (l) Which of the following does not occur in phase 4 of the SDLC ?
- (i) acquire hardware and software
 - (ii) train users
 - (iii) conduct interviews
 - (iv) test the new system

(5)

(m) Coding and testing are done in a manner :

- (i) adhoc
- (ii) cross-sectional
- (iii) bottom up
- (iv) top down

(n) Which of the following is a function of the process step of data processing ?

- (i) Index
- (ii) Update
- (iii) Project
- (iv) Retrieval

(o) A system investigation may result from :

- (i) an analysis investigation
- (ii) a scheduled system reviewed
- (iii) a manager's formal request
- (iv) All of the above

Section-B

Unit-I

2. Elaborate on the technical and interpersonal skills required of system analysts. 14

(6)

3. Discuss the behavioural issues involved in understanding the system development life cycle. 14

Unit-II

4. Describe the concept and procedure used in constructing DFDs. Use an example of your own to illustrate. 14
5. What steps make-up the system development life cycle with structured analysis ? 14

Unit-III

6. What audit considerations are included in system design ? How are they important ? 14
7. Explain any **two** of the following : 14
- (a) Design layout
 - (b) Types of forms
 - (c) Design methodologies

Unit-IV

8. What design specification are considered in preparing a test plan ? Explain. 14
9. What levels of quality assurance must a system meet ? Explain. 14

(7)

Unit-V

- 10.** What factors must be considered prior to database recovery planning ? Explain. 14
- 11.** Explain any **two** of the following : 14
- (a) Objectives of database security
 - (b) Financial considerations in selection
 - (c) Advantages of system analysis and design
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