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 corrrect 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

338_BSP_(7)   *(Turn Over)*

(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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