AF-3132

PGDCA (Part - I)
Term End Examination, 2017-18

Paper - VI

System Analysis and Design

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

Note : Section-A is compulsory and answer **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 alternative for the following questions : 30

(*a*) The main ingredient of the report documenting the ..... is the cost benefit analysis.

(*i*) System Analysis

(*ii*) Feasibility Study

(*iii*) System Analyst

(*iv*) System Design

(*b*) Determining if employees, managers and clients will resist a proposed new system is part of this feasibility study :

(*i*) Technical Feasibility

(*ii*) Economic Feasibility

(*iii*) Organizational Feasibility

(*iv*) Operational Feasibility

(*c*) The process of converting a new or revised system design into an operational one is known as :

(*i*) Testing

(*ii*) Implementation

(*iii*) Quality Assurance

(*iv*) System Analysis

(*d*) System design is carried out :

(*i*) as soon as system requirements are determined

(*ii*) whenever a system analyst feels it is urgent

(*iii*) after final system specifications are approved by the organization

(*iv*) whenever the user management feels it should be done

(*e*) Enhancements, upgrades and bug fixes are done during the ..... step in the SDLC.

(*i*) Maintenance and Evaluation

(*ii*) Problem/Opportunity Identification

(*iii*) Design

(*iv*) Development and Documentation

(*f*) A management information system is the one which :

(*i*) is required by all managers of an organization

(*ii*) processes data to yield information of value in tactical management

(*iii*) provides operational information

(*iv*) allows better management of organizations

(*g*) ..... refers to the number of connections between a 'calling' and 'called' module and the complexity of these connections.

(*i*) Coupling

(*ii*) Transaction

(*iii*) Evaluation

(*iv*) Cohesion

(*h*) Cost-benefit analysis :

(*i*) evaluates the tangible and non-tangible factors

(*ii*) compares the cost, with the benefits of introducing a computer-based system

(*iii*) estimates the hardware and software costs

(*iv*) All of the above

(*i*) System testing implies :

(*i*) Testing chnges made in an existing or a new program

(*ii*) Making sure that the new programs do in fact process certain transactions according to specifications

(*iii*) Running the system with live data by the actual user

(*iv*) Executing a program to check logic changes made in it and with the intention of finding errors making the program fail

(*j*) In the analysis phase the development of the ..... occurs, which is a clear statement of the goals and objectives of the project.

(*i*) documentation

(*ii*) flowchart

(*iii*) program specification

(*iv*) design

(*k*) The process of converting a new or revised system design into an operational one is known as :

(*i*) Testing

(*ii*) Implementation

(*iii*) System Design

(*iv*) System Analysis

(*l*) After implementation of the system, system maintenance could be done for :

(*i*) Minor changes in the processing logic

(*ii*) Errors detected during the processing

(*iii*) Revision of the formats of the reports

(*iv*) All of the above

(*m*) During a system's audit, the system performance is compared to :

(*i*) similar systems

(*ii*) newer systems

(*iii*) the design specifications

(*iv*) competing systems

(*n*) An appraisal, of a system's performance after it has been installed, is called system :

(*i*) planning

(*ii*) review

(*iii*) maintenance

(*iv*) batch processing

(*o*) Data store in a DFD represents :

(*i*) a sequential file

(*ii*) a disk store

(*iii*) a repository of data

(*iv*) a random access memory

Section-B

Unit-I

2. Explain system development life cycle in detail. 14

3. Write short notes on the following : 14

(*a*) MIS

(*b*) Prototyping

Unit-II

4. Explain data dictionary and decision tree with suitable example. 14

5. What is feasibility study ? Why is feasibility study required ? Describe various types of feasibility studies. 14

Unit-III

6. What is System Design ? List and explain various design methodologies in brief. 14

7. Explain the importance of input and output design. 14

Unit-IV

8. What is system testing ? Why is system testing done ? Explain the pvarious types of system tests in brief. 14

9. Explain various levels of Quality Assurance. 14

Unit-V

10. Write short notes on the following : 14

(*a*) Software maintenance

(*b*) System security

11. Describe disaster recovery planning. 14

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