ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE – 2009

INFORMATION SYSTEMS ANALYSIS AND DESIGN

SEMESTER - 2

Time : 3 Hours]   [Full Marks : 70

GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for the following :   10 × 1 = 10

    i)   What is not software life cycle model ?

       a)   Waterfall model   b)   Spiral model

       c)   COCOMO model   d)   Prototype model.

    ii)   Feasibility Study means

       a)   partly computerized partly manual

       b)   conceptual solution of the problem

       c)   assessment of the validity of the project

       d)   none of these.

    iii)   Which of the following are part of the SDLC ?

       a)   Requirement analysis

       b)   Program specification

       c)   Branch making

       d)   All of these.

iv)   Cost benefit analysis

     a)   compares the cost with the benefits

     b)   estimates hardware and software cost

     c)   evaluates the tangible and intangible factors

     d)   all of these.

v)   A zero level DFD describes

     a)   overview of process, inputs and outputs

     b)   the fully blown up system design

     c)   that the system design cannot be split further

     d)   none of these.

vi)   A system that does not interact with external environment is called

     a)   closed system   b)   logical system

     c)   open system   d)   hierarchical system.

vii)   Which of the following is not strategy for design ?

     a)   Bottom up   b)   Top down

     c)   Embedded design   d)   Hybrid design.

viii)   Testing the software is basically

     a)   verification   b)   validation

     c)   both (a) and (b)   d)   none of these.

ix)   System test is performed by

   a)   end users   b)   programmers

   c)   system analyst   d)   none of them.

x)   Documentation is prepared at the time of

   a)   commencing the study

   b)   every state

   c)   completion of the design

   d)   completion of implementation.

GROUP – B
(Short Answer Type Questions)

Answer any *three* of the following.   3 × 5 = 15

2.   What do you mean by the term 'risk' in respect to software projects ? What do you mean by risk containment ?

3.   What do you mean by clean decomposition & neat arrangement in modular design approach ?

4.   What are the shortcomings of DFD ?

5.   What are the differences between flow chart & structure chart ?

6.   What is software documentation ? What are the different types of software documentation ?

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following.   3 × 15 = 45

7.   a)   What are the disadvantages of Classical waterfall model ?

    b)   Discuss about the prototyping model.

    c)   Compare & contrast different life cycle models.   3 + 7 + 5

8.   a)   Write the names of different types of testing with definition.

    b)   Discuss different types of unit testing.   5 + 10

9.   a)   Explain Quality assurance with their Quality factor.

    b)   What are open and close systems ?

10   a)   Draw the DFD of a Library system.

    b)   Write the different requirements for designing a form.   8 + 7

11.   Write short notes on any *three* of the following :   3 × 5 = 15

    a)   Black box testing

    b)   Maintenances and its different types

    c)   Decision analysis

    d)   Cyclomatic complexity

    e)   CASE tools.

_____

END