INFORMATION SYSTEMS ANALYSIS AND DESIGN (SEMESTER - 2)

CS/BCA/SEM-2/BCA-202/09

1. ....
   Signature of Invigilator

2. ....
   Signature of the Officer-in-Charge

Reg. No.

Roll No. of the Candidate

ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE – 2009

INFORMATION SYSTEMS ANALYSIS AND DESIGN (SEMESTER - 2)

Time : 3 Hours]   [Full Marks : 70

INSTRUCTIONS TO THE CANDIDATES :

1. This Booklet is a Question-cum-Answer Booklet. The Booklet consists of **32 pages**. The questions of this concerned subject commence from Page No. 3.

2. a) In **Group – A**, Questions are of Multiple Choice type. You have to write the correct choice in the box provided **against each question**.

   b) For **Groups – B** & **C** you have to answer the questions in the space provided marked 'Answer Sheet'. Questions of **Group – B** are Short answer type. Questions of **Group – C** are Long answer type. Write on both sides of the paper.

3. **Fill in your Roll No. in the box** provided as in your Admit Card before answering the questions.

4. Read the instructions given inside carefully before answering.

5. You should not forget to write the corresponding question numbers while answering.

6. Do not write your name or put any special mark in the booklet that may disclose your identity, which will render you liable to disqualification. Any candidate found copying will be subject to Disciplinary Action under the relevant rules.

7. **Use of Mobile Phone and Programmable Calculator is totally prohibited in the examination hall.**

8. You should return the booklet to the invigilator at the end of the examination and should not take any page of this booklet with you outside the examination hall, **which will lead to disqualification**.

9. Rough work, if necessary is to be done in this booklet only and cross it through.

No additional sheets are to be used and no loose paper will be provided

FOR OFFICE USE / EVALUATION ONLY
Marks Obtained

	Group – A							Group – B			Group – C			Total Marks	Examiner's Signature
Question Number															
Marks Obtained															

....
Head-Examiner/Co-Ordinator/Scrutineer

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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)

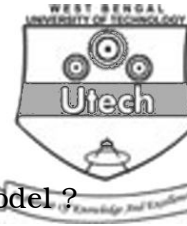Answer any *three* of the following.   3 × 5 = 15

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