

Name :

Roll No. :

Invigilator's Signature :

CS/BCA/SEM-2/BCA-202/2010

2010

INFORMATION SYSTEM ANALYSIS & DESIGN

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

GROUP - A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for the following : $10 \times 1 = 10$

i) RAD model was proposed by

- a) Lucent Technology b) IBM
c) Del Corporation d) none of these.

ii) Which is not an S/W life cycle model ?

- a) Waterfall model b) Spiral model
c) Cocomo model d) Prototyping model.

iii) SRS stands for

- a) Software Requirement Specification
b) System Requirement Specification
c) System Rectification Standard
d) none of these.

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- iv) Interview is the part of
- a) design
 - b) testing
 - c) implementation
 - d) all of these.
- v) Structure English is a
- a) coding technique
 - b) use for testing
 - c) design tool
 - d) none of these.
- vi) Requirement analysis includes
- a) fact gathering
 - b) understanding of requirement
 - c) requirement documentation
 - d) all of these.
- vii) Waterfall model is *not* suitable for
- a) small project
 - b) complex project
 - c) accommodating change
 - d) none of these.
- viii) Data dictionary keeps details of the contents of
- a) data flows
 - b) data stores
 - c) both (a) & (b)
 - d) neither (a) nor (b).
- ix) Validation testing is called
- a) Beta test
 - b) Alpha test
 - c) Gamma test
 - d) Acceptance test.
- x) Alpha test is done by
- a) Tester
 - b) Customer
 - c) Developer
 - d) all of these.

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GROUP - B
(Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

2. Define system with an example. What is sub-system ?
3. Name the different types of system.
4. Explain DFD and ER-diagram with example.
5. What is system testing and prototyping ?
6. What is meant by user-interface design ?

GROUP - C
(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

7. a) Explain DSS.
b) Compare between SDLC and Waterfall model. $8 + 7$
8. a) What are the important elements of a system ?
b) What is a spiral model ? State its advantages. $7 + 5 + 3$
9. a) What is DFD ? Discuss different symbols used in DFD.
b) Explain generalization and specialization.

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- c) Draw the E-R diagram showing the cardinality for the following problem :

A store has different counters managed by different employees. A counter has different items but no two counters have common items. Customer buys from different counters. Bills are prepared from bill counter only.

4 + 5 + 6

10. a) What is post-implementation review ? Explain.
- b) Why is system training necessary to implement a new system. ?
- c) What is the difference between logical and physical designs ?
- 6 + 5 + 4
11. a) Define Pseudo code with example.
- b) State the merits and demerits of decision table.
- c) State the general guidelines for writing structure English procedure.
- 5 + 5 + 5