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Invigilator's Signature :	•••••

CS/MBA (OLD)/SEM-4FT & 6PT/SM-405/2010 2010 SYSTEM ANALYSIS AND 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.

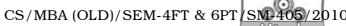
GROUP - A (Multiple Choice Type Questions)

- 1. Choose the correct alternatives for the following: $10 \times 1 = 10$
 - i) Which is not a software life cycle model?
 - a) Waterfall model b) Spiral model
 - c) Cocomo model d) Prototyping model.
 - ii) Waterfall model is not suitable for
 - a) small project
 - b) complex project
 - c) accommodating project
 - d) none of these.

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- iii) A feasibility study means
 - a) partly computerized and partly manual
 - b) conceptual solution of the problem
 - c) assessment of the viability of the project
 - d) none of these.
- iv) SRS stands for
 - a) Software Requirement Specification
 - b) System Requirement Specification
 - c) System Rectification Standard
 - d) None of these.
- v) If requirement is frequently changing, which model is most suitable?
 - a) Waterfall model
- b) Prototyping model
- c) RAD model
- d) None of these.
- vi) Data Dictionary keeps details of the contents of
 - a) Data flows
- b) Data stores
- c) both of these
- d) neither of the two.
- vii) A Zero Level DFD describes
 - a) overview of the processes, inputs and outputs
 - b) the faulty blown-up system design
 - c) that the system design cannot be split further
 - d) none of these.



viii) A software design description document only includes ER diagram a) Data dictionary b) DRD c) d) all of these. Design specifications do not normally include ix) Output requirement a) b) Input and storage requirement Control provision c) d) Blueprint showing the layout of hardware. Which of the following is not data collection? X) a) On-site observation b) Program flowchart Interviews d) Questionnaires. c) **GROUP - B** (Short Answer Type Questions) Answer any *three* of the following. $3 \times 5 = 15$ What is a System? Discuss the basic components of a system. Differentiate between System Analysis and System Design. What is normalization? Why is it necessary? 2 + 3What is a Meta Class? List its advantages. 2 + 3Distinguish between white box and black box testing. 3 25521 (MBA) [Turn over

2.

3.

4.

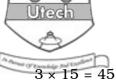
5.

6.



(Long Answer Type Questions)

Answer any three of the following.



- 7. a) What is System development life cycle? Identify the six distinct stages in the system development life cycle.
 - b) Explain in detail "Feasibility Study".
 - c) Write a short note on any *one* of the following:
 - i) System Requirement Analysis
 - ii) System evaluation.

5 + 5 + 5

- 8. a) Differentiate between Logical DFD and Physical DFD. Explain with example.
 - b) Draw a context level and level-1 DFD for Library Information System. 8 + 7
- 9. a) State the key concepts of object oriented approach.
 - b) Define UML and explain UML architecture.
- 10 + 5
- 10. a) Explain the taxonomy of CASE tools.
 - b) Write a short note on System documentation.
 - c) Discuss the various states involved in selecting a Vendor. 5+5+5
- 11. Write short notes on any *three* of the following : 3×5
 - a) Project selection
 - b) System testing
 - c) User interface design
 - d) Decision table
 - e) Spiral Model.

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