Deute-25/11/19 T.F. (Computer) (Sem - V) (CBSGS) (R-2012)

Paper / Subject Code: 30304 / STRUCTURED AND OBJECT ORIENTED ANALYSIS & DESIGN

Q.P. Code: 37074

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Duration: 3 Hours

[Total marks: 80]

N.B.: (1) Question no. 1 is compulsory

- (2) Attempt any three questions from remaining
- (3) Assume suitable data wherever necessary
- Q1 (a) Define system and with suitable diagram explain the System Development Life 10 Cycle in detail.
 - (b) List and explain the roles of system analyst in brief. "Systems Analyst as Agent of Change", Justify with suitable example.
- Q2 (a) Define Process and Re-engineering. Draw and explain Business Process 10 Reengineering (BPR) life cycle.
 - (b) What is cohesion and coupling in the context of software design? Explain different 10 types of coupling.
- Q3 (a) Explain the need of deployment diagram. Draw a deployment diagram to model 10 fully distributed systems.
 - (b) Draw the use case diagram for online railway reservation system with extend, 10 include relations between use cases.
- Q4 (a) Draw and explain Zachman framework. 10
 (b) Give Types of Costs and Benefits. Explain ALL the techniques used for Cost- 10 Benefit Analysis in brief with formulae.
- Q5 (a) What is the importance of Data flow diagram (DFD) in structured analysis and 10 design? Draw DFD for suitable example.
 - (b) Explain the rules for developing State Machine Diagram. Draw the State Machine 10 Diagram for Water Phases e.g. Water can exist in several states liquid, vapor, solid, and plasma.
- Q6 Write short note (Any Two)
 - a) SRS document
 - b) Design of user interface
 - c) Requirement gathering techniques

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