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**101703**

**Dec., 2018**

**B.TECH 7th SEMESTER (UNDER CBS)**

**OBJECT ORIENTED SYSTEM DEVELOPMENT**

**(CE-405)**

**Time : 3 Hours] [Max. Marks : 60**

**Instructions:**

- (i) *It is compulsory to answer the questions of Part-1. Limit your answers within 20-40 word in this part.*
- (ii) *Answer any four questions from Part-2 in detail.*
- (iii) *Different parts of the same question are to be attempted adjacent to each other.*
- (iv) *Assume suitable standard data wherever required, if not given.*

**PART-1**

1. (a) Define Modelling in UML and its advantages. (2)
- (b) How does Object Orientation promote reusability? (2)
- (c) Briefly explain any *two* advantages of using Rational Rose CASE tool? (2)

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- (d) How does a simple use case look like? (2)
- (e) How UML stereotypes are defined? (2)
- (f) Define coding in reference to iteration Planning process. (2)
- (g) Why Generalization is Very Strong? (2)
- (h) Differentiate between Aggregation and Containment? (2)
- (i) Briefly discuss any two goals of UML. (2)
- (j) Briefly explain Validation testing in the OO context. (2)

**PART-2**

- 2. (a) What is the difference between association and aggregation, explain in terms of implementation. (5)
  - (b) Define object oriented development? What are the general stages of object-oriented design process? (5)
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- 3. (a) What path functions and point functions. Show that work is a path function, and not a property. (5)
  - (b) What's the difference between a stereotype and a class inheritance in UML? (5)

- 4. What is Objectory? What are the different phases and iteration in Objectory software Development process? (10)
- 5. What is UML? Differentiate between its structured and behaviour diagrams. Elaborate Structured Diagrams. (10)
- 6. What is a view model? Explain 4+1 architectural view model. (10)
- 7. Define and explain the design attributes and operations in Iteration Planning Process. (10)