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**Total No. of Questions: 18** 

# B.Tech.(CSE) (2011 Onwards E-II) (Sem.-7,8) OBJECT ORIENTED ANALYSIS AND DESIGN

Subject Code: BTCS-906 M.Code: 71898

Time: 3 Hrs. Max. Marks: 60

#### **INSTRUCTION TO CANDIDATES:**

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

# **SECTION-A**

# **Answer briefly:**

- 1) How to achieve multiple inheritance in a single inheritance system?
- 2) Why is a large number of simple classes better than a small number of complex classes?
- 3) State the importance of anti-patterns.
- 4) What is a test case?
- 5) When to use Unit testing?
- 6) List the various testing strategies.
- 7) Write note on frameworks.
- 8) How is the use case model useful in every phase of software development?
- 9) What are object-oriented metrics?
- 10) What is class?

1 | M - 71898 (S2) - 1655

## **SECTION-B**

- 11) Describe briefly encapsulation and Inheritence.
- 12) How is the use case model useful in every phase of software development? Discuss.
- 13) Develop an activity diagram to show the business process of the library.
- 14) What are the graphical diagrams defined in UML? Illustrate each.
- 15) Describe System level testing with example..

## **SECTION-C**

- 16) What is factory pattern? Explain with example.
- Explain Use-case driven approach in object oriented system development with the payroll system as a case study.
- Develop activity / class diagrams for the following use case of the banking system : Identify all the classes, responsibilities and collaborators processes for the objects.
  - i) Deposit in saving account
  - ii) Withdrawal from saving account (both acceptance and denial)
  - iii) Balance checking

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

2 | M - 71898 (S2) - 1655