**Roll No.**
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**Total No. of Pages : 02**

**Total No. of Questions : 18**

**B.Tech. (CSE) (2012 to 2017 E-II)    (Sem.–7)**
# 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.  Abstraction

2.  Encapsulation

3.  Component diagram

4.  Deployment Diagrams

5.  GoF patterns

6.  Creational Patterns

7.  CASE tools

8.  Cluster

9.  Aspect-Oriented Software

10.  The Facade Pattern

## SECTION-B

11. Write short note about deployment diagram.

12. Explain the concept of link, Association and inheritance.

13. Draw a class diagram, including minimum and maximum multiplicity for the following. The system stores information about two things: cars and owners. A car has attributes for make, model and year. The owner has attributes for name and address. Assume that a car must be owned by one owner and an owner can own many cars but that an owner might not own any cars (perhaps she just sold them all, but you still want a record of her in the system).

14. What is a design pattern? How design patterns used in the design discipline?

15. How are sequence diagrams helpful in assigning responsibilities? Explain.

## SECTION-C

16. Describe the basic activities in object oriented analysis and explain how use case modeling in useful in analysis?

17. Write short note on adapter, singleton, and factory and observer patterns.

18. Write a note on aspect-oriented and service-oriented software.

**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.**