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

Total No. of Questions : 18

B.Tech. (IT) (2012 to 2017 E-II) (Sem.–7)

OBJECT ORIENTED ANALYSIS AND DESIGN

Subject Code : BTCS-906

M.Code : 71984

Time : 3 Hrs. **Max. Marks : 60**

INSTRUCTIONS 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. What is elaboration?
2. What is UP?
3. What is the use of component diagram?
4. What is sequence diagram?
5. How to choose the initial domain object?
6. How to apply the GRASP patterns?
7. Why do we need to identify system's responsibility?
8. What are steps for mapping design to code?
9. What are the primary goals in the design of UML?
10. '*A system must be loosely coupled and highly cohesive*'. Justify.

SECTION-B

11. Explain object oriented analysis and design process.

12. What is visibility? How visibility can be achieved from object A to object B?

13. Explain the relationship between sequence diagram and use cases.

14. Write a short note on system level testing.

15. Describe singleton and factory patterns.

SECTION-C

16. Describe UML notation for class diagram with an example. Explain the concept of link, association and inheritance.

17. Describe the strategies used to identify the conceptual classes. Describe steps to create domain model used for representing conceptual classes.

18. Write a short note on :

    a) Aspect oriented softwares

    b) Inception

    c) Activity diagrams

    d) Aggregation

    e) Collaboration.

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.