

Roll No.

Total No. of Pages : 02

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B.Tech.(CSE) (2012 to 2017 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) State different parts of transition in state machines.
- 2) What is meta model?
- 3) What is singleton pattern?
- 4) What is GoF Pattern?
- 5) What is reflexive association?
- 6) Define Requirements validation.
- 7) What are package diagrams?
- 8) Define lifetime scope activation of object in context of sequence diagram.
- 9) What is usability testing?
- 10) Define Abstract class and method.

SECTION-B

- 11) A directory file contains information about files in a directory, including both ordinary files as well as other directory files. Prepare an object diagram which models directory files and ordinary files.
- 12) Differentiate between :
 - a) Aggregation and association.
 - b) Sequence diagram and activity diagram
- 13) How do we use Packages to organize the Domain Model? Show the UML Package notation highlighting ownership and references.
- 14) In mapping designs to code, how exceptions are handled in UML? Illustrate with the example of asynchronous messages in interaction diagrams.
- 15) What is a transition? Discuss its parts.

SECTION-C

- 16)
 - a) Explain system level testing.
 - b) Elaborate aspect oriented software.
- 17) Explain Iterative Development and Unified Process in detail.
- 18) Write short notes on :
 - a) Structural Patterns
 - b) Object oriented metrics.

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.