Printed Pages: 01 **Sub Code: CS/IT222**

Paper Id: 900120 **Roll No.** | | | | | | | | | | |

M TECH

(SEM-II) THEORY EXAMINATION 2018-19

OBJECT ORIENTED PROGRAMMING

Time: 3 Hours ***Total Marks: 100***

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 2 x 10 = 20

a. What do you mean by object oriented?
b. Explain multiple inheritance.
c. Explain wrapper class?
d. Explain method overloading?
e. Explain object oriented design.
f. Define CORBA.
g. Explain RPC.
h. Define RMI.
i. Define Association.
j. Explain polymorphism.

SECTION B

2. Attempt any *three* of the following: 10 x 3 = 30

a. What are the merits and demerits of object oriented approach? Explain the concept of encapsulation with proper example.
b. Draw and explain the OMT object model for payroll system.
c. Describe why analysis and design model cannot be tested in conventional way. How correctness and consistency of OOA and OOD model can be ensured?
d. What do you understand by SASD and YSD? Compare the design methodology done with SASD and YSD.
e. Distinguish between Adhoc and universal polymorphism with the help of example.

SECTION C

3. Attempt any *one* part of the following: 10 x 1 = 10

(a) Compare 2-tier client-server architecture with 3-tier architecture. Also highlight when 3-tier architecture is better than 2-tier architecture.
(b) Differentiate between object oriented database and relational database. What is OO decomposition? Explain with the help of example.

4. Attempt any *one*part of the following: 10 x 1 = 10

(a) What is an interaction diagram? Explain the steps involved in drawing such a diagram with the help of example.
(b) Describe the various kinds of relationship exists between classes with examples.

5. Attempt any *one* part of the following: 10 x 1 = 10

(a) Write short notes on followings (i) Object Management Group (ii) Database Triggers
(b) Explain the followings (i) Recursive Aggregate (ii) CORBA.

6. Attempt any *one* part of the following: 10 x 1 = 10

(a) What is object query language? Explain with an example
(b) Draw object diagram for Information Management System (IMS) of the university.

7. Attempt any *one* part of the following: 10 x 1 = 10

(a) How does object oriented design and structured design differ? What aspects of these two design methods are the same?
(b) What is a virtual function? When is it needed? Write a program to find out whether a virtual function can be -friend of another class.

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