

B.Tech II Year II Semester (R09) Supplementary Examinations May/June 2017

**OBJECT ORIENTED PROGRAMMING**

(Common to CSS, IT & CSE)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) Differentiate message passing and procedure call.  
(b) Explain different types of inheritance.
- 2 (a) Develop a java program to simulate the working of simple calculator operations.  
(b) For any given triangle, the length of the hypotenuse is given by the square root of the sum of squares of other two sides. Develop a program that calculates the longest side when other two sides are provided as arguments.
- 3 (a) What is dynamic method dispatch? Write a java program to illustrate dynamic method dispatch.  
(b) Explain the procedure to call super class members with examples.
- 4 (a) How is polymorphism achieved in java? Write a program to show the same.  
(b) Write a sample program to illustrate packages.
- 5 (a) Define synchronization. Write a program to solve producer-consumer problem.  
(b) Describe any two types of exceptions with example program.
- 6 Explain AWT user interface components in detail.
- 7 (a) List the limitations of AWT. Describe the MVC architecture.  
(b) Write an example and explain JApplet.
- 8 Write note on the following:  
(a) Difference between ports and sockets.  
(b) Enumerations and auto boxing.

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