

Name :

Roll No. :

Invigilator's Signature :

**CS/M.Tech(IT-SE) (OLD)/SEM-2/MSE-203/2013
2013**

OBJECT ORIENTED SOFTWARE ENGINEERING & UML

Time Allotted : 3 Hours

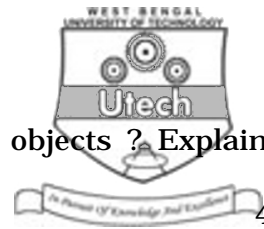
Full Marks : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

Answer any *five* questions. $5 \times 14 = 70$

1. a) What are the data types of Java SE 1.4 ? 4
- b) What are the default values of these types ? 4
- c) What is the reason of Java being known as Typed language ? Give code snippets. 6
2. a) What is an array ? 2
- b) How can we declare arrays in Java ? 4
- c) How do we know the number of elements in an array ? 2
- d) Give an example of returning an array from a Java method. 6



3. a) What do you mean by class and its objects ? Explain with code snippet. 4
- b) What are the significances of "static" and "final" ? 4
- c) What are instance and class variables ? 4
- d) Why do we use "this" keyword ? 2
4. a) What is a constructor ? 2
- b) What are the different types of constructors ? 6
- c) What are the basic non-compliances of a constructor ? 6
5. a) What is method overloading ? 4
- b) What are the rules of overloading a method ? 6
- c) Differentiate between method overloading and overriding. 4
6. a) What are the rules of method overriding ? 6
- b) What is dynamic method dispatch ? 2
- c) Explain it with code. 6



7. a) What is an abstract class ? 2
- b) What is the significance of an Abstract class ? 4
- c) Can an abstract method be static ? 2
- d) Justify. 6
8. a) What are command line arguments ? 2
- b) How do we see it in Java ? Give an example. 6
- c) Draw an execution flow-chart of try-catch-finally. 6
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