Name :	CIEGI
Roll No. :	A Dame of Kanadada and Confirmed
Invigilator's Signature :	

CS/B.Tech/(ICE-NEW)/SEM-6/IC-604C/2013 2013

OBJECT ORIENTED PROGRAMMING

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.

GROUP – A (Multiple Choice Type Questions)

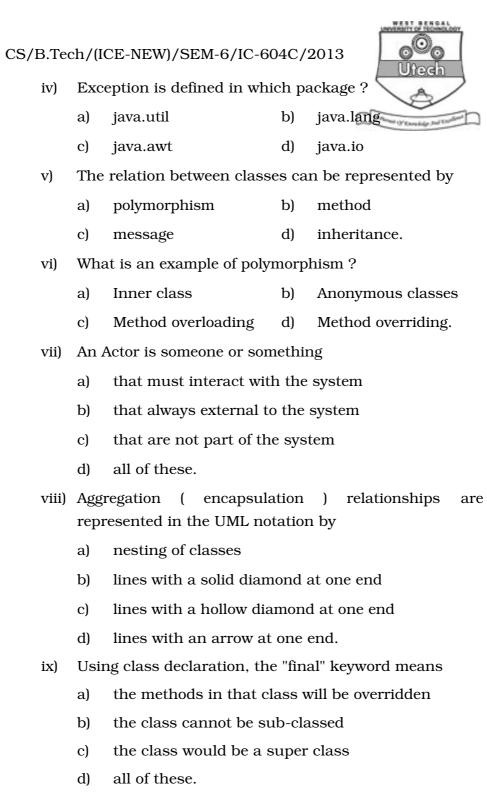
1. Choose the correct alternatives for the following :

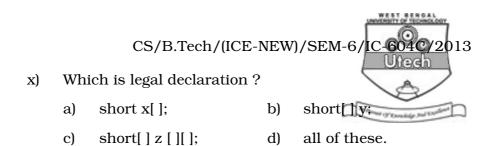
 $10 \times 1 = 10$

- i) Which is a primitive type variable declaration ?
 - a) Char b) Byte
 - c) Double d) All of these.
- ii) In JAVA, Applet is a
 - a) Super Class b) Interface
 - c) Package d) Object.
- iii) From any non-subclass outside the package, which access is possible ?
 - a) Public b) Protected
 - c) Default d) All of these.

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[Turn over





GROUP – B (**Short Answer Type Questions)** Answer any *three* of the following.

- What do you mean by Object Oriented Programming ? How does it differ from Structure Oriented Programming ? 2 + 3
- 3. What are the differences between method overloading and method overriding ?
- 4. What is Synchronization ? When is it used ? 3+2
- 5. What do you mean by interface ? Write the difference between interface and abstract class.
- 6. Illustrate the use of this and super with an example.

GROUP – C (Long Answer Type Questions) Answer any *three* of the following.

- 7. a) What are the features of java language ? Describe.
 - b) What do you mean by command line argument?
 - c) What do you mean by subclass constructor method ?

5 + 5 + 5

[Turn over

 $3 \times 15 = 45$

 $3 \times 5 = 15$

- 8. a) Describe the complete life cycle of a thread.
 - b) Explain the method by which you can block a thread.
 - c) What is thread synchronization ?

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d) Describe the inter-thread communication. 4 + 4 + 4 + 3

3

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- 9. a) What is applet ?
 - b) Describe the applet life cycle.
 - c) What is local applet ?
 - d) What are the differences between Java application & Java applet ?
 - e) What are the applications of applet tag?

2 + 4 + 2 + 5 + 2

- 10. a) Explain the function of a JVM in brief.
 - b) What might be the difference in functionality between a machine with only JDK installed and another machine with only JRE installed.
 - c) Discuss the requirement of each keyword in the following Java program statement.

"public static void main (string args [])"

- d) i) Multiple inheritance can be performed in Java. Explain how.
 - ii) Write a Java program to support your views.

3 + 2 + 3 + (4 + 3)

11. What is polymorphism ? What is the use of super key word ? What do you mean by dynamic method dispatch ? What is garbage collection and how does java achieve this feature ?
4 + 3 + 4 + 4

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