Name : ....

Roll No. : ....

Invigilator's Signature : ....

CS/BCA/SEPARATE SUPPLE/SEM-6/BCAE-602B/2011

2011

OBJECT ORIENTED PROGRAMMING WITH JAVA

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 the integer type among the following ?

   a)   Float   b)   Byte

   c)   Chard)   Double.

   ii)   Which is the wrong statement in automatic type
         conversion ?

   I)   Two types should be compatible

   II)   The source type should be smaller than destination
         type.

   III) The destination type should be larger than
         destinaion type

   a)   I & II   b)   I & III

   c)   II & III   d)   None of these.

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iii) The default constructors automatically initializes all instance variables to

a) 0   b) 1

c) – 1   d) none of these.

iv) Which operator is used to create memory to object ?

a) New

b) Dot

c) both (a) and (b)

d) none of these.

v) When you implement an interface method, it must be declared as

a) public   b) private

c) protected   d) none of these.

vi) .... wakes up the first thread that called wait() on the same object.

a) Notify   b) Notifyall

c) both (a) & (b)   d) none of these.

vii) .... abstract method is the only entry point to the thread.

a) suspend()   b) run()

c) resume()   d) wait().

viii) .... method is called each time your applet's output must be drawn.

a) init() b) start()

c) paint() d) destroy().

ix) To extract a single character from a string, we can refer directly to an individual character via the .... method.

a) getchars() b) putchars()

c) CharAt() d) all of these.

x) .... interface defines one method to recognize the state of an item changes.

a) keylistener b) item listener

c) focus listener d) all of these.

GROUP – B
(Short Answer Type Questions)
Answer any *three* of the following. 3 × 5 = 15

2. Write the difference between C, java and C++.

3. Explain the oop principles in detail ?

4. a) What is "this" keyword ? What is the use ?

   b) What is the use of Finalize method ?

   c) What is the use of static keyword ?

5. Define a package and write an example. What are access specifiers in the package ?

6. Write an applet program to change the background colour and font.

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following.   3 × 15 = 45

7. a) What is an object referencing ? Give a demo program.

    b) What is overloading ? Give one program to create volume of a box by parameters passing by creating objects.

8. a) What is a thread ? How to create multiple thread and extend threads ? Give eamples for each.

    b) Write about any 10 methods present in astring and give small example program for each method.

    c) Write about applet lifecycle in detail.

9. What is exception ? Write a java program to implement try, catch nested try, throw and throws method.

10. a) Write a smallapplet program to draw lines.

    b) Write a smallapplet program to draw rectangles.

    c) Write a smallapplet program to draw ellipses and circles.

    d) Write a smallapplet program to draw arcs.

    e) Write a smallapplet program to draw polygons.

11. What are different types of controls supported by abstract window toolkit ? Explain at least 6.

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