CS/B.tech/CSE/odd/Sem-5th/CS-504D/2014-15

## CS-504D

### OBJECT ORIENTED PROGRAMMING

The questions are of equal value.

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. Answer any ten questions.  $10 \times I = 10$ 

(i) Byte code of java is

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Time Allotted: 3 Hours

(A) platform dependent (B) platform independent

(C) no specific rule (D) depend upon OS

(ii) In System.out.println(); out is

(A) a class (B) output stream object

(C) method (D) none of these

(iii) Constructor can be overloaded

(A) never (B) always

(C) partially (D) either (B) or (C)

(iv) Runtime binding occurs

(A) when method overloaded (B) method overridden

(C) object is created (D) none of these

(v) A package may contain

(A) class only (B) interface only

(C) class and interface (D) only subpackage

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(vi) Stack overrun is an

(A) error (B) exception

(C) virus (D) worm

(vii) Java virtual machine is

(A) platform dependent totally

(B) independent

Full Marks: 70

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(C) depends on machine architecture only

(D) depends on OS only

(viii) Scanner class resides in

(A) java.io (B) java.applet

(C) java.util (D) java.net

(ix) Applet can be used for generating

(A) static web page (B) dynamic webpage

(C) active webpage (D) none of these

(x) Java is robust because

(A) it is object oriented

(B) garbage collection is present

(C) platform independent

(D) exception handling

(xi) Abstract class is used for

(A) inheritance only (B) instantiation only

(C) both (A) and (B) (D) useless

# GROUP B (Short Answer Type Questions)

Answer any three questions.

 $3 \times 5 = 15$ 

2+3

What is JVM? Explain the process of compilation and interpretation in

Java.

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3.	What are literals in Java? What is the difference between Java and C++ in respect of language functions?	2+3
4.	What is parametric and non-parametric constructor? Explain both with a suitable program.	2+3
5.	Create three buttons of colour red, green and blue. Then write an applet program to change the background colour of screen according to the button colour.	5
6.	What is String-buffer class? Explain with a suitable program.	1+4

# GROUP C (Long Answer Type Questions)

	Answer any three questions.	3×15 = 45
7.	What do you mean by parameter passing? What is call by value and call by reference? Write a down two programs to define call by value and call by reference.	3+4+8
8.	Write the different characteristics of final keyword. What are the different characteristics of abstract keyword? Explain abstract class through a program.	5+5+5
9.	How command line argument is written? Explain through a program.	2+5+2+6

- How command line argument is written? Explain through a program. 2+5+2+6

  How an array is declared in Java? Write a program to ascending sort an array and display it.
- 10. What do you mean by exception? Write program to handle user defined 2+5+2+6 exception. What do you mean by thread? What is runnable interface? Explain it through a program.
- 11. Write short notes on any three of the following: 3×5
  - (a) Interface.
  - (b) Abstraction.
  - (c) Inheritance.
  - (d) Encapsulation.
  - (e) Virtual Method Table.

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