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

CS-504D

OBJECT ORIENTED PROGRAMMING

Time Allotted: 3 Hours Full Marks: 70

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)

Answer any ten questions.

 $10 \times 1 = 10$

http://www.makaut.com

(i) Byte code of java is

http://www.makaut.com

- (A) platform dependent
- 3) platform independent

(C) no specific rule

- (D) depend upon OS
- (ii) In System.out.println(); out is
 - (A) a class

output stream object

(C) method

- (D) none of these
- (iii) Constructor can be overloaded
 - (A) never

(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

5405 1 5405

2

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

(vi) Stack overrun is an

A) error

(B) exception

(C) virus

(D) worm

(vii) Java virtual machine is

A) platform dependent totally

- (B) independent
- (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

 - garbage collection can also be a (B) garbage collection is present correct option.
 - (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.

 $3 \times 5 = 15$

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

2+3

http://www.makaut.com

5405

CS/B.tech/CSE/odd/Sem-5th/CS-504D/2014-15		
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. How an array is declared in Java? Write a program to ascending sort an array and display it.	2+5+2+6
10.	What do you mean by exception? Write program to handle user defined exception. What do you mean by thread? What is runnable interface? Explain it through a program.	2+5+2+6
(b) (c) (d)	Write short notes on any three of the following: Interface. Abstraction. Inheritance. Encapsulation. Virtual Method Table.	3×5

http://www.makaut.com

3