Name ....

C 5157

Reg. No ....

FOURTH SEMESTER B.C.A DEGREE (SUPPLEMENTARY/IMPROVEMENT) EXAMINATION, MAY 2016

(UG—CCSS)

Core Course

CA 4B 05—PROGRAMMING IN JAVA

Maximum : 30 Weightage

Time : Three Hours

I. Answer all *twelve* questions :

1 Which Property does not hold good for Java ?

   (a) Object-Oriented.

   (b) Secure.

   (c) Dynamic:

   (d) Complex.

2 A compiler converts the Java program into an intermediate language representation called

   (a) Bytecode.

   (b) Byte.

   (c) Byteclass.

   (d) Bytejava.

3 In Java, exceptions are the sub-classes of the built-in class

4   Operator is used to create an object.

   (a) Class.

   (b) New.

   (c) Print.

   (d) Main.

5 Java platform consists of JVM and a package of readymade software components. This package is known as

   (a) Java API.

   (b) JVM API.

   (c) JM API.

   (d) API.

6 The   method of an applet is called only once in an applet's life-cycle.

7 Which of the following is not a Looping statement

   (a) For.

   (b) Switch.

   (c) While.

   (d) Do-while.

Turn over

8 Which property of Java allows the creation of hierarchical classifications ?

(a) Interface.

(b) Inheritance.

(c) Robust.

(d) Distributed.

9 OOPS allows us to decompose a problem into a number of entities called

10 The class at the top of the exception classes hierarchy is called

(a) Common.

(b) Throwable.

(c) NULL.

(d) Catch.

11 The class creates and maintains a buffer for an input stream.

(a) Common Buffered input Stream.

(b) Buffered Stream.

(c) Input Stream.

(d) Buffered input Stream.

12 A path. is a sequence of bytes traveling from a source to a destination over a co-nmunication

(a) String.

(b) Stream.

(c) Character.

(d) Integer.

II. Short Answer Type Questions. Answer all the questions :   (12 x   3 weightage)

13 Explain in brief the concepts garbage collection and dynamic binding.

14 Describe Method overriding. Explain it with an example.

15 How is interface used to support multiple inheritance ? Explain with a program.

What is meant by 'Late binding' ?

17 How is a superclass constructor or method invoked ?

18 What is synchronization ? When it is used ?

19 How applets differ from application programs ?

20 What is the differe e ween reloading and restarting an applet ?

21 Differentiate b/w J2EE, J2ME and J2SE.

(9 x 1 = 9 weightage)

III. Short Essay *or* Paragraph Questions. Answer any *five* questions :

22 Explain *'Dynamic method dispatch'* with *one* example program.

23 List out the similarities between *interfaces* and *classes.*

24 How do we set priorities for threads ?

25 List out the common types of exceptions in java.

26 Explain briefly the concept of *method overriding* with example.

27 Describe the following terms with examples :

(a) Interface.

(b) Constructors and methods.

(c) The modifier final.

(d) The modifier abstract.

(e) Private.

(f) Protected.

28. What is a *stream* ? How are the concepts of streams used in java ?

(5 x 2 = 10 weightage)

IV. Essay questions. Answer any *two* questions :

29 Describe the AWT class hierarchy. Also describe the methods in component, container, and frame and panel class.

30 What is *multithreading* ? How do you handle it in Java ? Explain the different ways of creating thread .Write a Java program that creates three threads. First thread displays *"Good Morning"* every one second, the second thread displays *"Hello"* every two seconds and the third thread displays *"Welcome"* every three seconds.

31 Explain in detail about *Java Buzzwords* (or) *Java features* (or) *Characteristics.*

(2 x 4 = 8 weightage)