

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2014

(UG-CCSS)

Core Course

Computer Science

CS 5B 09—PROGRAMMING IN JAVA

(2009—2011 Admissions)

Time : Three Hours

Maximum : 30 Weightage

I. Answer *all* questions :

- 1 Java programs are compiled into an intermediate representation called _____.
- 2 _____ is a name given to a variable, class or method.
- 3 _____ Operators act upon the individual bits of their operands.
- 4 Which method is used to perform DML statements in JDBC ?
- 5 _____ is a general purpose class for accessing the attributes of a remote resource.
- 6 Minimum threads in a program are _____.
- 7 The implicit return type of a class' constructor is the _____ itself.
- 8 paint() is defined by AWT _____ class.
- 9 An object of _____ class is generated when a list item is double clicked.
- 10 A _____ is a window that does not contain a title bar, menu bar or border.
- 11 _____ are passive controls that do not support any interaction with the user.
- 12 _____ is the default layout of a Frame window.

(12 × ¼ = 3 weightage)

II. Answer *all* questions :

- 13 What is meant by Function overriding ?
- 14 What are the uses of break statement in Java ?
- 15 What is the use of this operator ?
- 16 What is meant by Daemon thread ?
- 17 What is the use of interfaces in Java ?
- 18 List any *four* checked exceptions ?

- 19 What are the primary steps you need to take to enable a JDBC connection ?
- 20 What you meant by anonymous inner classes ?
- 21 What is the use of Socket class ?

(9 × 1 = 9 weightage)

III. Answer any *five* questions :

- 22 Explain the various selection statements in Java.
- 23 What is a constructor ? Write a Java program to explain how super class constructors are called in their subclasses ?
- 24 What is an exception ? Write an exception subclass which throws an exception if the variable age passed as argument to a method and the value of age is less than 20 ?
- 25 Briefly explain the Font class. Write a program to obtain all the available fonts on your machine ?
- 26 Interfaces can be extended. Explain with an example.
- 27 (i) Define JDBC.
(ii) What are the primary steps you need to take to enable a JDBC connection ?
(iii) What are the different types of JDBC statements ?
- 28 What is a checkbox ? How would you put checkboxes on an applet ? Explain how checkbox group is created in Java.

(5 × 2 = 10 weightage)

IV. Answer any *two* questions :

- 29 Briefly explain the primitive datatypes and literals in Java.
- 30 What is multithreaded programming ? Explain how threads are created in Java. Explain the need of thread synchronization, with an example.
- 31 How will you obtain graphics context in a window ? Explain the various drawing methods of graphics class.

(2 × 4 = 8 weightage)