



DN-003-006405

Seat No. _____

**Second Year B. Sc. Bioinformatics (Sem. IV)
(CBCS) Examination**

April / May - 2015

**BI - 405 - B : Object Oriented
Programming Using Java**

Faculty Code : 003

Subject Code : 006405

Time : $2\frac{1}{2}$ Hours

[Total Marks : 70]

SECTION-1

1 Attempt MCQ: (1 Mark each)

(20)

- 1 Long is _____, where long is _____.
(A) data type, class (C) Interface, keyword
(B) class, data type (D) Keyword, Wrapper class
- 2 Which method is used to draw a circle in the applet?
(A) drawCircle() (C) drawOval()
(B) drawArc() (D) drawRound()
- 3 Which class cannot be a subclass in java?
(A) abstract class (C) final class
(B) parent class (D) None of these
- 4 Suspend thread can be revived by using
(A) start() method (C) resume() method
(B) suspend() method (D) yield() method
- 5 FileReader class belongs to _____ package.
(A) java.awt.event (C) java.applet
(B) java.awt (D) java.io
- 6 _____ is used to throw exception explicitly.
(A) try (C) catch
(B) throws (D) throw

- 7 _____ method cannot be overridden.
- (A) non-static (C) static
(B) final (D) instance
- 8 What is the size of double data type?
- (A) 2 (C) 8
(B) 4 (D) 16
- 9 JIT stands for _____?
- (A) Java Internet Technology (C) Just In Thread
(B) Java Internal Threading (D) Just In Time
- 10 When a method has same name and same type signature as a method in super class, then this method is said to be _____.
- (A) Overloaded (C) Duplicate
(B) Overridden (D) Abstract
- 11 All classes under _____ class are unchecked exception.
- (A) Exception (C) Error
(B) Runtime Exception (D) Throwable
- 12 BufferedReader class belongs to _____ package.
- (A) java.awt.event (C) java.applet
(B) java.io. (D) java.awt
- 13 Access to _____ methods of class does not required object creation?
- (A) static (C) public
(B) non-static (D) abstract
- 14 _____ is sequence of data items flowing from source to destination.
- (A) Switch (C) String
(B) Swing (D) Stream
- 15 _____ members of class are accessible from within the class only
- (A) private (C) default
(B) public (D) protected
- 16 By default each class extends _____ class.
- (A) Super (C) Object
(B) Parent (D) Child
- 17 Checkbox class belongs to _____ package.
- (A) java.io. (C) java.awt.event
(B) java.awt (D) java.applet
- 18 IllegalAccessException comes under the category of:
- (A) Checked and unchecked (C) Unchecked Exception
(B) Checked Exception (D) None of these

- 19 Minimum priority of thread is _____.
- (A) 1 (C) 0
(B) 2 (D) -1

- 20 Java does not support _____ type of inheritance.
- (A) Single (C) Multilevel
(B) Hierarchical (D) Multiple

SECTION II

- 2 (a) Explain any **three** : (6)
- (1) Finally block
 - (2) Super class
 - (3) Deadlock
 - (4) Throws
 - (5) ItemEvent
 - (6) JFrame
- (b) Explain any **three** : (9)
- (1) Abstract class
 - (2) Overloading
 - (3) Interface
 - (4) Unicode
 - (5) Drawing with Graphics class
 - (6) JMenu
- (c) Explain any **two** : (10)
- (1) Describe Applet Life cycle.
 - (2) Explain types of inheritance with example.
 - (3) What is thread? Explain multi-threading with an example.
 - (4) Explain in brief user custom exception handling in java.
 - (5) Explain in brief Mouse Event delegation model in java.
- 3 (a) Explain any **three** : (6)
- (1) Polymorphism
 - (2) Event source object
 - (3) ActionEvent
 - (4) Applet
 - (5) Swing
 - (6) JScrollBar class
- (b) Explain any **three** : (9)
- (1) Overriding
 - (2) Import keyword
 - (3) AdjustmentEvent
 - (4) JRadioButton
 - (5) JCheckBox
 - (6) JList
- (c) Explain any **two** : (10)
- (1) What is package? Write a note on application of package in java.
 - (2) Write a note on Java architecture.
 - (3) What is synchronization? Write the requirement, problems and solutions for synchronization.
 - (4) Discuss awt v/s swings.
 - (5) Discuss character stream v/s byte stream.