



**BCA (CBCS) Sem.-IV Examination  
April-2013  
CS-20 Programming with JAVA**

**Faculty Code : 003  
Subject Code : 003402**

**Time : 2 ½ Hours]**

**[Total Marks : 70**

1. Attempt following Twenty MCQs :

**20**

- (1) Which is JIT
  - (a) It is interpreter
  - (b) It is compiler
  - (c) It is development kit
  - (d) both A and B
- (2) A constant value in Java is created by using :
  - (a) variable
  - (b) keyword
  - (c) literal
  - (d) All of above
- (3) \_\_\_\_\_ has no return type, not even void.
  - (a) class
  - (b) main method
  - (c) destructor
  - (d) constructor
- (4) To inherit one class to another class, use \_\_\_\_\_.
  - (a) import
  - (b) extends
  - (c) Colon
  - (d) implements
- (5) Which method of thread is used to specify a maximum amount of time that you want to wait for specified thread to terminate ?
  - (a) join
  - (b) sleep
  - (c) start
  - (d) stop
- (6) Specify which of the following is not a reserved keyword in JAVA.
  - (a) switch
  - (b) null
  - (c) float
  - (d) for
- (7) API Stands for:
  - (a) Application Programming Installation
  - (b) Application Programming Interface
  - (c) Applet Programming interface
  - (d) Applet programming Installation

- (8) Which operator is used to create and concatenate string ?
- (a) + (b) ++  
(c) & (d) ::
- (9) In exception, any code that must be executed before a method return put in \_\_\_\_\_ block.
- (a) try (b) catch  
(c) throw (d) finally
- (10) Which keyword is used to call constructor of parent class in inheritance ?
- (a) this (b) volatile  
(c) super (d) extend
- (11) Which method wake up the first thread that called waitQ on same object
- (a) isAlive () (b) notify ()  
(c) notifyAll () (d) start ()
- (12) In applet programming, which method requires a parameter that is an instance of Graphic class.
- (a) start () (b) stop ()  
(c) Init () (d) paint ()
- (13) Which event class is used to select or deselect check boxes:
- (a) ActionEvent (b) ItemEvent  
(c) TextEvent (d) KeyEvent
- (14) Which is used to set the value of the instance variables:
- (a) dot (b) Colon  
(c) Ampersand (d) asterisk
- (15) What Checkbox method allows you to tell if a Checkbox is checked ?
- (a) State () (b) getState ()  
(c) getChecked () (d) getCheck ()
- (16) Which interface must be implementing when using Scrollbar in Applet ?
- (a) ActionListener (b) AdjustmentListener  
(c) ItemListener (d) TextListener
- (17) In float wrapper, that define NaN constant; what is NaN ?
- (a) Not a Numeric (b) Not a Number  
(c) Not a Negative (d) Not a Numerical

- (18) \_\_\_\_\_ is a set of classes that provides more powerful and flexible components.
- (a) swing (b) AWT  
(c) Both (a) and (b) (d) Applet
- (19) What is the vector class ?
- (a) provides the capability to implement file objects  
(b) provides the capability to implement interface  
(c) ActiveX provides the capability to implement io stream of objects  
(d) provides the capability to implement a growable array of objects
- (20) \_\_\_\_\_ is default layout manager for applets and panels
- (a) border layout (b) Card layout  
(c) grid layout (d) flow layout

2. (A) Explain any **Three** from the following :

6

- (1) Garbage collection
- (2) Synchronization
- (3) Swing
- (4) Java is platform independent
- (5) Deadlock
- (6) Import statement

(B) Attempt any **Three** questions from the following :

9

- (1) Explain runnable interface.
- (2) Explain the general form of a class with example.
- (3) Explain types of exceptions.
- (4) Explain ItemEvent example.
- (5) Explain Flow Layout.
- (6) Explain ActionListener with example.

(C) Attempt any **Two** Java program from the following :

10

- (1) To find factorial of entered number
- (2) To accept 10 characters into array. If entered character is in lowercase then convert it into uppercase and print all characters.
- (3) To display name of course (BCA/IT) and related fees of course using StringTokenizer Class
- (4) To read rollno, name, course and fee for 5 students. Print total course fee.
- (5) To create two threads, one is used to print event numbers and second used odd numbers between 1 to 100

3. (A) Attempt any **Three** from the Following : 6
- (1) Inheritance
  - (2) Operator precedence
  - (3) This keyword
  - (4) Differentiate overloading and overriding.
  - (5) Explain transient and volatile modifiers.
  - (6) What is stream ?
- (B) Attempt any **Three** from the Following : 9
- (1) Explain Read() to read characters with suitable example.
  - (2) Explain any one class of java.lang.
  - (3) Explain printStream class with methods.
  - (4) Explain thread priorities with suitable example.
  - (5) Explain bufferReader Class with methods.
- (C) Develop following program (Any **Two**) : 10
- (1) Develop a Java Program to read the contents of a file "bac.txt".
  - (2) Develop a Applet Program to accept integer as a parameter and display a message " it is integer".
  - (3) Develop a Applet Program with JScrollbar to adjust background color.
  - (4) Develop a Applet Program that allows to draw five triangles of different sizes. Each triangle should be filled with different color.
  - (5) Develop a Java Program to copy the contents of one file of another file.
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