## **BACHELOR OF COMPUTER APPLICATION FOURTH SEMESTER PROGRAMMING WITH JAVA BCA-401**

(Use separate answer scripts to	
Duration: 3 hrs.	Full Marks: 70
Time: 20 min. (PART-A: Objective)  Marks: 20	
Choose the correct answer from the following: 1X20=20	
1. In java arrays are a. Object c. Primitive data type	b. Object Reference d. None of the above
<ul><li>2. Which of the following for loop will be an in a. for(i=0;i&lt;1;i)</li><li>c. for(i=0;;i++)</li></ul>	finite loop? b. for (;;) d. All of the above
3. Which of the following keyword must be used to monitor for exception?	
a. try	b. catch
c. throw	d. finally
<ul><li>4. Sleeping thread can be revived by using the</li><li>a. Suspend()</li><li>c. Notify()</li></ul>	method b. Resume() d. None of the above
<ol> <li>Which of these jump statement can skip proparticular iteration?</li> <li>a. break</li> </ol>	b. continue
c. return	d. exit
6. The main method should be static for the reason	
a. It can be accessed easily by the class loader.	b. It can be accessed by every method or variable without any hindrance
c. It can be executed without creating any instance of the class	d. None of the above
7. Which of these keywords is used to define p	ackages in Java?
a. pkg	b. Pkg
c. package	d. Package
8. Which of these functions is called to display	the output of an applet?
a. display()	b. paint()
c. DisplayApplet()	d. PaintApplet()
9. Which class cannot be sub classed (or extended) in java?	
a. Abstract class	b. Final class
c. Parent class	d. Super class

10. Command to execute a compiled java program is: a. java b. javac c. run d. execute 11. The new operator in java a. Returns a pointer to a variable b. Creates a variable called new c. Tells compiler how mush memory is d. Create object and allocates memory available 12. What does the AWT stands for? a. Application with types b. A web toolkit c. Absolutely wonderful toolkit d. Abstract windows toolkit 13. Which of the following represents the correct definition of interface? a. interface Shape { void draw() { } } b. interface Shape { void draw(); } c. interface Shape { void draw() }; d. interface Shape { void draw() } 14. Which of the following methods can be executed more than once in the life cycle of an applet? a. init() b. start() c. destroy() d. stop() 15. Which among the following is the compulsory section of java program? a. Package statement b. Import statement c. Class declaration section d. Documentation section 16. Which of this access specifier must be used for class so that it can be inherited by another sub class? a. public b. private d. friend c. protected 17. The order of the three top level elements of the java source file are a. Import, package and class b. Class, import and package c. Package, import and class d. Random Order 18. Which of the following is not supported by java? a. Global variable b. Abstraction c. Encapsulation d. Polymorphism 19. Java programs are a. Platform-dependent b. Interpreter-dependent c. Platform-independent d. Interpreter-Independent 20. Suspend thread can be revived by using b. resume() a. start() c. notify() d. vield()

PART-B: Descriptive

Time: 2 hrs. 40 min. Marks: 50 [Answer question no.1 & any four (4) from the rest] 1. Explain the different levels of access protection available in Java. 10 2. a. List at least five major differences between C++ and Java. 4+3+3=10b. How Java is strongly associated with the Internet? c. What is the contribution of java to the World Wide Web? 3. a. What is token? List the various types of token supported by Java. 3+3+4=10 b. Compares in terms of their functions, the following pairs of statements: i. While and do....while. ii. Break and continue. c. Write a program to find out sum of five numbers using command line arguments. 4. a. Define thread with example. 3+7=10b. Describe the complete life cycle of a thread with neat diagram. 5. a. Describe different forms of inheritance with example. 4+4+2=10 b. When do we declare a method or class final and a method or class abstract? c. Explain how an array is different from vector. 6. a. What is a package? 2+4+4=10 b. Explain different java API packages c. Give an example where interface can be used to support multiple inheritances. Develop a standalone Java program for the example. 7. a. What is an exception? 2+4+4=10 b. How do we define try and catch block? c. List some of the most common types of exceptions that might occur in java with example. 8. a. What is an applet? 2+3+5=10b. How do applets differ from application programs? c. Explain the life cycle of an applet with a neat diagram.

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