BACHELOR OF COMPUTER APPLICATION FOURTH SEMESTER PROGRAMMING WITH JAVA

BCA – 16

(Use separate answer scripts for Objective & Descriptive)

Duration: 3 hrs.

(PART A : Objective)

Marks: 20

 $1 \times 20 = 20$

Full Marks: 70

Time: 20 min.

Choose the correct answer from the following:

- 1. Which of these keywords is used to make a class?
 a) class b) struct c) int d) None of the mentioned
- 2. Which of the following is a valid declaration of an object of class Box?
 a) Box obj = new Box()
 b) Box obj = new Box
 - c) obj = new Box() d) new Box obj
- 3. Which of these operators is used to allocate memory for an object?a) mallocb) allocc) newd) give
- 4. Which of these statements is incorrect?
 - a) Every class must contain a main() method.
 - b) Applets do not require a main() method at all.
 - c) There can be only one main() method in a program.
 - d) main() method must be made public.
- 5. What is the process of defining more than one method in a class differentiated by method signature?
 - a) Function overriding b) Function overloading
 - c) Function doubling d) None of the mentioned
- 6. Which of the following is a method having same name as that of its class?a) finalizeb) deletec) classd) constructor
- 7. Which keyword is used by method to refer to the object that invoked it?a) importb) catchc) abstractd) this
- 8. Which of these keywords is used to refer to member of base class from a sub class?
 - a) upper b) super c) this d) None of the mentioned
- **9.** What is the process of defining a method in subclass having same name & type signature as a method in its superclass?
 - a) Method overloading b) Method overriding
 - c) Method hiding d) None of the mentioned

from a String object? a) CHARAT() b) cha	arat()	Time: 2 hrs. 40 min.
	natAt()	(Answer qu
11. Which of these keywords is used to define packages in Java?a) pkgb) Pkgc) packaged) Package		 What is class? Explain Java. Describe the complete 1 List at least five major
 12. Which of these functions is called to display the output of an applet? a) display() b) paint() c) displayApplet() d) printApplet() 		
13. Which method will a web broa) main methodb) de		strongly associated with the World Wide Web?
14. Which of the following method executed last among all the thr a) sleep()b) stop()	ed can be used to make the main thread to be eads? c) notify() d) start()	 What is an interface? W using interface. What is classes.
15. What is the default value of particular max_PRIORITY?a) 0 and 256b) 0 and 1	riority variable MIN_PRIORITY and c) 1 and 10 d) 1 and 256	5. What is an applet? Exp application programs?
 16. Which class cannot be sub classed (or extended) in java? a) Abstract class b) Final class c) Parent class d) None of the above 		 applet. 6. Describe the different s program that receives t then on click on a butto 7. a) Write a program to e using the keywords:
17. Suspend thread can be revived by usinga) start() methodb) resume() methodc) suspend() methodd) yield() method		
 18. Command to execute a compiled java program is: a) java b) javac c) run d) Execute 		
19. What does the AWT stands fora) Application with typesc) Absolutely wonderful toolking	b) A web toolkit	b) Write a java program8. a) Describe the syntax tob) Explain with an example.
20. Which among the following isa) Package Statementc) Class declaration Section	s the compulsory section of java program? b) Import Statement d) Documentation Section	run time.

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(PART B : Descriptive)	N. 1. 50)
Time: 2 hrs. 40 min.	Marks: 50	
(Answer question no. 1 & any four (4) from the re	<u>st</u>)	
1. What is class? Explain the different levels of access protection a	available in	
Java.	(2+8=10)	
2. Describe the complete life cycle of a thread with neat diagram.	(10)	
3. List at least five major differences between C++ and Java. How	Java is	
strongly associated with the Internet? What is the contribution of	of java to	
the World Wide Web?	(4+3+3=10)	
4. What is an interface? Write a java program to find area of rectan	ngle and circle	
using interface. What is package? Explain Java system packages	s and their	
classes.	(2+4+2+2=10)	
5. What is an applet? Explain local and remote applet. How do app	olets differ from	
application programs? Discuss the steps involved in loading and	l running a local	
applet.	(2+3+3+2=10)	
6. Describe the different stages in the life cycle of an applet. Write an applet		
program that receives two numeric values in two text boxes from	n the user and	
then on click on a button it displays the sum in third text box.	(4+6=10)	
7. a) Write a program to explain the Exception Handling mechanis	sms in Java	
using the keywords: try, catch and finally.	(5)	
b) Write a java program to display a simple moving banner.	(5)	
8. a) Describe the syntax for standard Applet tag.	(5)	
b) Explain with an example how call to an overridden method is		
b) Explain whit an example now can to an overrideen memoria	bicsolved at	

(5)