REV-00 BCA/08/13

BCA **Fourth Semester Programming with JAVA** (BCA-16)

Duration: 3Hrs.

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

I. Answer any five questions

- 1) What is an Object and how do you allocate memory to it?
- 2) What is method overloading and method overriding?
- 3) What gives java it's "write once and run anywhere" nature?
- 4) What is a constructor? What is a destructor?
- 5) What is static variable and static method?
- 6) What is finalize() method?
- 7) Explain working of Java Virtual Machine (JVM)?

2. Answer any five questions

- 1) What are different types of access modifiers (Access specifiers)?
- 2) Why main() is preceded by public and static in java?
- 3) What is an Interface? What is the difference between abstract class and interface?
- 4) What is source and listener?
- 5) What are the different ways to handle exceptions?Explain
- 6) What is synchronization and why is it important?
- 7) Explain the architecture of an Applet

5×2=10

Marks: 50

5×3=15

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Full Marks: 70

3. Answer any five questions

5×5=25

- 1) What is inheritance? How do achive multiple inheritance in java?
- 2) What is multithreading and what are the methods for inter-thread
- communication and what is the class in which these methods are defined?3) Explain the concept of deadlock. What is the purpose of the wait(), notify(), and notifyAll() methods?
- 4) What is a layout manager and what are different types of layout managers available in java AWT?
- 5) Write a program to explain the Exception Handling mechanisms in Java using the keywords: try, catch and finally.
- 6) Write a java program to display a simple moving banner.
- 7) Write a java program to read the content of a file.

REV-00 BCA/08/14

BACHELOR OF COMPUTER APPLICATION Fourth Semester Programming with JAVA (BCA- 16)

(The figures in the margin indicate full marks for the questions)

Duration: 20 minutes

(PART A- Objective)

Time: 20 mins

I. Choose the correct answer:-

- 1. Which of these keywords is used to make a class?
 - a) classb) structc) intd) None of the mentioned

2. Which of the following is a valid declaration of an object of class Box?

- a) Box obj = new Box();
- c) obj = new Box();

3. Which of these operators is used to allocate memory for an object?

- a) mallocb) allocc) newd) give
- 4. Which of this statement 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
- c) Function doubling

b) Function overloading

b) Box obj = new Box;

d) new Box obj;

d) None of the mentioned

Total Marks: 20

Marks - 20

20x1=20

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6. Which of the following is a method having same name as that of it's class?

- b) delete a) finalize d) constructor
 - c) class

7. Which keyword is used by method to refer to the object that invoked it?

a) import b) catch c) abstract d) this

8. Which of these keywords is used to refer to member of base class from a sub elass?

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
- c) Method hiding

b) Method overriding

d) None of the mentioned

* 10. Which of these method of class String is used to extract a single character from a String object?

a) CHARAT()	b) chatat()
c) charAt()	d) ChatAt()

11. Which of these keywords is used to define packages in Java?

a) pkg	b) Pkg
c) package	d) Package

12. Which of these access specifiers can be used for a class so that it's members can be accessed by a different class in the different package?

- a) Public b) Protected
- c) Private d) No Modifier
- 13. Which of the following is incorrect statement about packages?
 - a) Package defines a namespace in which classes are stored.
 - b) A package can contain other package within it.
 - c) Java uses file system directories to store packages.
 - d) A package can be renamed without renaming the directory in which the classes are stored.

14. Which of these can be used to fully abstract a class from its implementation?

a) Objects

b) Packages

c) Interfaces d) None of the Mentioned.

15. Which of the following package stores all the standard java classes?

- a) lang b) java c) util d) java.packages
- 16. Which of these keywords must be used to monitor for exceptions?

a) try	b) finally	
c) throw	d) catch	

17. Which of these keywords is used to manually throw an exception?

a) try	b) finally
a) +1	d) actals

- c) throw d) catch
- 18. Which of these statements is incorrect?
 - a) By multithreading CPU's idle time is minimized, and we can take maximum use of it.
 - b) By multitasking CPU's idle time is minimized, and we can take maximum use of it.
 - c) Two thread in Java can have same priority
 - d) A thread can exist only in two states, running and blocked.

19. Which of these methods can be used to output a sting in an applet?

a) display()	b) print()
a) duran Cturing all	d) transisant(

c) drawString() d) transient()

20. Which of these methods are used to register a keyboard event listener?

a) KeyListener() b) addKistener()

c) addKeyListener()

d) eventKeyboardListener()
