REV-01 MCA/02/08

> MASTER OF COMPUTER APPLICATION SECOND SEMESTER [SPECIAL REPEAT] OOPs

MCA-201

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Time: 30 mins.

Objective)

Choose the correct answer from the following:

Which of the following is true about the anonymous inner class?

a. It has only methods

b. Objects can't be created

c. It has a fixed class name

d. It has no class name

2. An interface with no fields or methods is known as a:

a. Runnable Interface

b. Marker Interface

c. Abstract Interface

d. CharSequence Interface

3. When is the object created with new keyword?

a. At run-time

b. At compile time

c. Depends on code

d. None of these

4. Identify the output of the following program.

String str="abcde";

System.out.print(str.substring(1,3));

a. abc

b. bc

c. bcd

d. cde

5. Identify the modifier which cannot be used for constructor.

a. Public

b. Protected

c. Private

d. Static

6. Exception created by try block is caught in which block?

a. catch

b. throw

c. final

d. none

7. Where is System class defined?

a. Java.lang.package

b. Java.util.package

c. Java.io.package

d. None of these

8. Which of the following is used to find and fix bugs in the program?

a. JDK

b. JVM

c. JRM

d. JDB

9. Identify the incorrect Java feature.

a. Object oriented

b. Use of pointer

c. Dynamic

d. Architectural neural

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2024/07

SET

Full Marks: 70

Marks: 20 1×20=20

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10.	Which statement is true about Java? a. Java is a sequence-dependent programming language c. Java is a platform-independent programming language	langua d. Java is	a code dependent programming age a platform-dependent amming language
11.	Identify the incorrect constructor type. a. Friend c. Parameterized	b. Defaud. Copy	lt
12.	Data members and member functions of a. Depends on code c. False	class are p. b. True d. None	rivate by default.
13.	Under which pillar of OOPS does base cl a. Polymorphism c. Inheritance	b. Encaps d. Abstra	sulation
14.	What is Inheritance in C++? a. Deriving new classes from existing classes c. Classes with same names		ading of classes bing of data into a single class
15.	What is the value of a in below program? int main() { int a, b=20; a = 90/b; return 0; } a. 4.5 c. 4	b. 4.0	lation Error
16.	Which operator cannot be overloaded? a. + c. *	b d. ::	lation Error
17.	class Mycpp { }; int main() { Mycppobj;		
	return 0; } a. Nothing would be printed c. Undefined		ation error f the above
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- 18. What is the scope of the variable declared in the user defined function?
 - a. Whole program
 - c. The main function

- b. Only inside the {} block
- d. Header section
- 19. What is an inline function?
 - A function that is expanded at each call during execution
 - c. A function that is not checked for syntax errors
- b. A function that is called during compile time
- d. A function that is not checked for semantic analysis
- 20. Which of the following feature is used in function overloading and function with default argument?
 - a. Encapsulation
 - c. Abstraction

- b. Polymorphism
- d. Modularity

(Descriptive)

Time: 2 hr. 30 mins. Marks: 50

[Answer question no.1 & any four (4) from the rest]

1.	Explain types of inheritance with example. Write a program to explain virtual function in C++.	5+5=10
2.	a) What is constructor? List out characteristics of constructor.b) Explain function overloading using example.	5+5=10
3.	Define stream. How can we read user defined values from standard input devices? Write programming statements to read all data from a predefined file.	
4.	Write a program to convert meter to centimeter using basic to class type conversion.	10
5.	Write about different input statements in java with examples.	10
6.	What is exception? Why it is necessary for programming? Write a java program to input two distances and compare them.	2+2+6=10
7.	a) What is Object oriented programming? Define runtime polymorphism and data hidden properties of OOPs.b) What are the advantages of OOPs?	6+4=10
8.	Create a class to store the record of Account for holding the record of bank account holder. An account can be of two types-Saving account or Current Account. Saving account holder get interest on specific rate of interest and current account holder have an overdraft limit(withdraw/deposit amount up-to specific limit). Both type of	10

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Account have withdraw and deposit operation. Write a java programme to display the records of Current account and Saving

account.