MASTER OF COMPUTER APPLICATION SECOND SEMESTER OOPS

MCA-201

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Time: 30 mins.

Objective

Choose the correct answer from the following:

1. 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. IRM

d. JDB

9. Identify the incorrect Java feature.

a. Object oriented

b. Use of pointer

c. Dynamic

d. Architectural neural

1



Full Marks: 70

Marks: 20 $1 \times 20 = 20$

	 a. Java is a sequence-dependent programming language c. Java is a platform-independent programming language 		Java is a code dependent programming language Java is a platform-dependent programming language
1.	Identify the incorrect constructor type. a. Friend c. Parameterized		Default Copy
2.	Data members and member functions of a a. Depends on code c. False	b.	s are private by default. True or False? True None
3.	Under which pillar of OOPS does base class a. Polymorphism c. Inheritance	b.	nd derived class relationship come? Encapsulation Abstraction
4.	What is Inheritance in C++? a. Deriving new classes from existing classes		Overloading of classes
15.	c. Classes with same names What is the value of a in below program? int main() { int a, b=20; a = 90/b; return 0; }	d.	Wrapping of data into a single class
	a. 4.5 c. 4		4.0 Compilation error
16.	Which operator cannot be overloaded? a. + c. *	b. d.	
17.	class Mycpp {		
	int main() { Mycpp obj; return 0; }		
	a. Nothing would be printedc. Undefined		Compilation error None of the above

10. Which statement is true about Java?

- 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. A function that is expanded at each call during execution
 - c. A function that is not checked for syntax errors
- 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] a) What is Object oriented programming? Define polymorphism and 6+4=10 encapsulation. b) What are the advantages of OOPs? a) What is constructor? List out characteristics of constructor. 5+5=10 b) Explain function overloading using example. Explain types of inheritance with example. Write a program to explain 5+5=10 virtual function in C++. Write a program to write and read data from a file using C++. 10 Define stream. How can we read user defined values from standard 3+3+4=10 5. input devices? Write programming statements to read all data from a predefined file. What is exception? Why it is necessary for programming. Write a java 2+8=10 program to input two distances and compare them. Define interface and its uses in JAVA. Define the role of multithreading 7. 5+5=10 program in JAVA. 8. Create a class to store the record of Account for holding the record of 10 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 Account have withdraw and deposit operation. Write a java program to display

the records of Current account and Saving account.