

D (' 01

T 11 3 4 1 PC

PART-B : Descriptive

Time : 2 hrs. 40 min.

Marks: 50

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

- What is OOP's? What are the features of object oriented 5+5=10 programming? Write a program that accepts two numbers from the user and swaps the two numbers without using a temporary variable.
- **2.** a. Write a program that accepts a 3 x 3 matrix from the user 6+4=10 and finds the transpose of it.
 - b. Explain various types of operators available in C++ with examples.
- 3. What is a friend function? What is object and class in OOP's? 2+8 =10 Explain with a program.
- **4.** a. What is constructor? What are the characteristics of a 2+4+4 constructor? =10
 - b. Explain function overloading with a program.
- **5.** What are the types of inheritance? Explain multilevel inheritance 4+6=10 with example.
- **6.** Explain the concept of virtual function. Discuss the role of 5+5=10 polymorphism in OOP's.
- 7. What is ofstream, ifstream and fstream? Write one program to 6+4=10 write and read from a file.
- **8.** What is exception? Explain the exception handling mechanism 2+8=10 with diagram.

MASTER of COMPUTER APPLICATION SECOND SEMESTER

OBJECT ORIENTED PROGRAMMING WITH C++

MCA - 204

(Use Separate Answer Scripts for Objective & Descriptive)

Duration: 5 ms.	ru.	I Marks: 70
	<u>: Objective</u>)	
Time : 20 min.		Marks:20
Choose the correct answer from the	following:	1×20=20
1. Constructors have return type.		
a. void	b. char	
c. int	d. no	
2. Which of the following operators cannot	t be overloaded.	
a(Dot operator)	b.?: (ternary operator)	
c. : : (Scope Resolution operator)	d. All of the above	
3. Which of the following is not a feature of	of object-oriented programming.	
a. Data Encapsulation	b. Inheritance	
c. Operator Overloading	d. Data Structure	
4. When the derived class has more than c	one parent, it is known as	
a. Multiple Inheritance	b. Single Inheritance	
c. Multilevel Inheritance	d. None of the above.	
5. Which of the following is not a type of a	constructor?	
a. copy constructor	b. friend constructor	
c. default constructor	d. parameterized constructor	
6. Which of the following term is used for	a function defined inside a class?	
a. Member variable	b. Member function	
c. Class variable	d. Class function	
7. Which of the following statement is cor		
a. A constructor is called at the time of	declaration of an object.	
b. A constructor is called at the time of	use of an object.	

- c. A constructor is called at the time of declaration of a class.
- d. A constructor is called at the time of use of a class.

= = *** = =

8. Which of the following ways are legal to acc pointer?	ess a class data member x using this					
a. this→x	b. this.x					
c. *this.x	d. None of the above.					
 9. Which inheritance type is used in the class g class A: public x, public y { }; 						
a. Multiple Inheritance c. Multilevel Inheritance	b. Single Inheritance d. None of the above.					
10. Which of the following is an invalid visibilit						
a. public	b. private					
c. protected	d. friend					
11. Which of the following access specifier is used as a default in a class definition?						
a. protected	b. public					
c. private	d. friend					
12. Which of the following statement is correct?						
a. class is an instance of object	b. object is an instance of class					
c. class is an instance of data type	d. None of the above.					
13. Which of the following operators allow to define the member functions of a class outside the class?						
a. : :	b.?					
c.:?	d. %					
14. Which of the following correctly declares an	arrav?					
a. int array[10];	b. int array;					
c. array {10};	d. array a[10];					
15. Which of the following is the correct operator to compare two variables?						
a. : =	b. =					
c. equal	d. = =					
 16. Overloaded functions are a. Very long function that can hardly run b. One function containing another one or more functions inside it c. Two or more functions with same name but different number of parameters or type. d. None of the above. 						
 17. Identify the correct statement regarding scop a. Global variables are declared in a separa b. Local variables are declared inside a func- only. c. Global variables are declare inside a func- program. d. None of the above. 	te file and accessible from any program. ction and accessible within the function					

b. write

b. c=c+1

d. c+=1

b. do while

d. repeat until

d. cin

19. To increase the value of c by one which of the following statement is wrong?

18. Which of the following is output statement in c++.

a. print

c. cout

a. c++ **c.** c+1=>c

a. for c. while

20. Which is not a loop structure?

[3]