

VCD- 110522 -FYIT- OOP-SEMII-75Mks-21/2 Hrs.

- N. B.: (1) All questions are compulsory.  
(2) Numbers to the right indicate marks.  
(3) Draw neat labeled diagrams wherever necessary.

**Q.1 Answer the following:**

**40 Marks**

1. A methodology which enables a system to be modeled as set of objects which can be controlled and manipulated in a modular manner.  
A. Object oriented                      B. Procedure oriented  
C. Event driven                         D. Event driven
2. Which feature of object oriented language provides reusability?  
A. Encapsulation                      B. Polymorphism  
C. Inheritance                         D. Abstraction
3. Creating a dummy system find errors of that and then create actual system is called as \_\_\_\_\_.  
A. software                              B. hardware  
C. application                         D. simulation
4. Which feature is not supported by procedural oriented programming?  
A. Jumping statement                  B. Control statement  
C Function creation                    D Exception handling
5. \_\_\_\_\_ uses insertion operator for standard output stream.  
A. cin                                      B. printf  
C.cout                                      D.scnaf
6. Which is not a token of a language?  
A. operators                              B.constants  
C. keywords                              D.errors
7. Which is derived data type in c++?  
A.structure                              B.union  
C.enumerator                            D.array
8. Function calling itself is called as \_\_\_\_\_.  
A. recursion                              B. iteration  
C. looping                                 D. extraction

9. Which keyword is used for method overriding?

- A. override
- B. sealed
- C. static
- D. virtual

10. Which is not true for abstract functions?

- A. class must be abstract
- B. only abstract method declaration is allow in base class
- C. Abstract class can have its objects
- D. Abstract class can be inherited

11. How many types of polymorphisms are there in C++?

- A. 1
- B. 2
- C. 3
- D. 4

12. Pure virtual methods are also called as \_\_\_\_\_.

- A. methods
- B. abstract methods
- C. static methods
- D. non static methods

13. \_\_\_\_\_ is not a type of inheritance.

- A. multilevel
- B. multiple
- C. hierarchical
- D. network

14. Which is the correct statement for hierarchical type inheritance \_\_\_\_\_?

- A. Two base classes can be used to be derived into one single class.
- B. Two more classes can be derived into single class.
- C. One base class can be derived into other two derived classes or more
- D. One base class can be derived into only two classes.

15. Which type of inheritance leads to diamond problem \_\_\_\_\_?

- A. multilevel
- B. multiple
- C. Single
- D. Hierarchical

16. What does inheritance allows you to do?

- A. Create a class
- B. Create a hierarchy of class
- C. Access method
- D. Access function

17. What is a template?

- A. A template is a formula to create generic class
- B. A template is used to manipulate the class
- C. A template is used to create attribute
- D. A template is used to variables.

18. How many types of templates are there in C++?

- A. 1
- B. 2
- C. 3
- D. 4

19. We declare template as \_\_\_\_

- A. tem<
- B. temp<
- C. template<
- D. (templ)

20. \_\_\_\_ header file is required to perform file i/o operations.

- A.<ifstream>
- B.<fstream>
- C.<ostream>
- D.<iostream>

**Q. 2 Answer the following:**

**A. Attempt any one of the following**

**4 Marks**

- i. What do you mean by static binding and dynamic binding?
- ii. How OOP is more effective than procedural language? Explain.

**B. Attempt any one of the following**

**3 Marks**

- i. Explain the concept of Object Oriented Programming.
- ii. Explain concept of polymorphism.

**Q. 3 Answer the following:**

**A. Attempt any one of the following**

**4 Marks**

- i. What do you mean by class? What are different ways to define member functions of class?
- ii. Write a C++ program to define class student with roll no., name, and marks as its attribute. Use method show marks() , get marks() in program.

**B. Attempt any one of the following**

**3 Marks**

- i. What is constructor? Explain any two characteristics of constructor.
- ii. Write a note on inline function.

**Q.4 Answer the following:**

**A. Attempt any one of the following**

**4 Marks**

- i. Explain the concept of operator overloading. List the operators which can be overload.
- ii. Explain the concept of function overloading with example.

**B. Attempt any one of the following**

**3 Marks**

- I. Write a note on type conversion.
- II. Explain the concept of abstract class.

**Q.5 Answer the following**

**A. Attempt any one of the following**

**4 Marks**

- i. Explain multilevel inheritance with proper example.
- ii. Write a note on visibility modes in inheritance.

**B. Attempt any one of the following**

**3 Marks**

- i. Explain hybrid inheritance with suitable example.
- ii. What is derived class? Explain with example.



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**Q.6 Answer the following**

**A. Attempt any one of the following**

**4 Marks**

- i. Explain various methods to detect the end of file.
- ii. Write a note on class template.

**B. Attempt any one of the following**

**3 Marks**

- i. Explain the concept of function templates.
- ii. Explain the working of files in C++.

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