



COA 201

B.A./B.Sc. IIIrd SEMESTER EXAMINATION, 2022-23

Computer Application

(Object Oriented Programming and C++)

(4+0)

(CBCS MODE)

AFFIX PRESCRIBED
RUBBER STAMP

Paper ID

(To be filled in the
OMR Sheet)

Date (तिथि) : _____

8375

अनुक्रमांक (अंकों में) :

Roll No. (In Figures)

अनुक्रमांक (शब्दों में) : _____

Roll No. (In Words) : _____

Time : 1 Hour

समय : 1 घण्टा

Max. Marks : 60

अधिकतम अंक : 60

नोट : पुस्तिका में 40 प्रश्न दिये गये हैं, सभी प्रश्न करने होंगे। प्रत्येक प्रश्न 1.5 अंक का होगा।

Important Instructions :

1. The candidate will write his/her Roll Number only at the places provided for, i.e. on the cover page and on the OMR answer sheet at the end and nowhere else.
2. Immediately on receipt of the question booklet, the candidate should check up the booklet and ensure that it contains all the pages and that no question is missing. If the candidate finds any discrepancy in the question booklet, he/she should report the invigilator within 10 minutes of the issue of this booklet and a fresh question booklet without any discrepancy be obtained.

महत्वपूर्ण निर्देश :

1. अभ्यर्थी अपने अनुक्रमांक केवल उन्हीं स्थानों पर लिखेंगे जो इसके लिए दिये गये हैं, अर्थात् प्रश्न पुस्तिका के मुख्य पृष्ठ तथा साथ दिये गये ओ०एम०आर० उत्तर पत्र पर, तथा अन्यत्र कहीं नहीं लिखेंगे।
2. प्रश्न पुस्तिका मिलते ही अभ्यर्थी को जाँच करके सुनिश्चित कर लेना चाहिए कि इस पुस्तिका में पूरे पृष्ठ हैं और कोई प्रश्न छूटा तो नहीं है। यदि कोई विसंगति है तो प्रश्न पुस्तिका मिलने के 10 मिनट के भीतर ही कक्ष परिप्रेक्षक को सूचित करना चाहिए और बिना त्रुटि की दूसरी प्रश्न पुस्तिका प्राप्त कर लेना चाहिए।



1. Where is the memory allocated for the objects ?
 - (A) Cache
 - (B) ROM
 - (C) HDD
 - (D) RAM
2. Single level inheritance supports _____ inheritance.
 - (A) Language independency
 - (B) Multiple inheritance
 - (C) Compile time
 - (D) Runtime
3. Which feature of OOP reduces the use of nested classes ?
 - (A) Inheritance
 - (B) Binding
 - (C) Abstraction
 - (D) Encapsulation
4. Which access specifier is usually used for data members of a class ?
 - (A) Protected
 - (B) Private
 - (C) Public
 - (D) Default
5. Which among the following doesn't come under OOP concept ?
 - (A) Data hiding
 - (B) Message passing
 - (C) Platform independent
 - (D) Data binding

6. Which feature of OOP is exhibited by the function overriding ?
- (A) Polymorphism
 - (B) Encapsulation
 - (C) Abstraction
 - (D) Inheritance
7. Which is not a feature of OOP in general definitions ?
- (A) Efficient Code
 - (B) Code reusability
 - (C) Modularity
 - (D) Duplicate/Redundant data
8. When OOP concept did first came into picture ?
- (A) 1980
 - (B) 1995
 - (C) 1970
 - (D) 1993
9. Which header file is required in C++ to use OOP ?
- (A) OOP can be used without using any header file
 - (B) Stdlib.h
 - (C) Iostream.h
 - (D) Stdio.h
10. Which features of OOP indicates code reusability ?
- (A) Abstraction
 - (B) Polymorphism
 - (C) Encapsulation
 - (D) Inheritance

11. How many types of access specifiers are provided in OOP (C++) ?
- (A) 1
 - (B) 2
 - (C) 3
 - (D) 4
12. How to access data members of a class ?
- (A) Dot, arrow or direct call
 - (B) Dot operator
 - (C) Arrow operator
 - (D) Dot or arrow as required
13. Which type of member cannot be accessed in derived classes of a base class ?
- (A) All can be accessed
 - (B) Protected
 - (C) Private
 - (D) Public
14. What is the term used to indicate the variable and constants of a class ?
- (A) Data members
 - (B) Variables of class
 - (C) Data characters
 - (D) Constants
15. Which data members can be inherited but are private to a class ?
- (A) Private
 - (B) Protected
 - (C) Protected and static
 - (D) Privately inherited

16. If same message is passed to objects of several different classes and all of those can respond in a different ways, what is this feature called ?
- (A) Inheritance
 - (B) Overloading
 - (C) Polymorphism
 - (D) Overriding
17. Which of the two features match each other ?
- (A) Inheritance and Encapsulation
 - (B) Encapsulation and polymorphism
 - (C) Encapsulation and abstraction
 - (D) Abstraction and polymorphism
18. Can Constructors be overloaded in derived class ?
- (A) Yes, always
 - (B) Yes, if derived class has no constructor
 - (C) No, Programmer cannot do it
 - (D) No, Never
19. IO class provides input and output through :
- (A) Data streams
 - (B) Serialization
 - (C) File system
 - (D) All above
20. Which of the following shows multiple inheritance ?
- (A) $A \rightarrow B \rightarrow C$
 - (B) $A \rightarrow B, A \rightarrow C$
 - (C) $A, B \rightarrow C$
 - (D) $B \rightarrow A$

21. Out of the following, which is not a member of the class ?
- (A) Static function
 - (B) Friend function
 - (C) Constant function
 - (D) Virtual function
22. Which of the following cannot be a friend ?
- (A) Function
 - (B) Class
 - (C) Object
 - (D) Operator function
23. How many types of polymorphism are there in C++ ?
- (A) 1
 - (B) 2
 - (C) 3
 - (D) 4
24. Which of the following is an abstract data type ?
- (A) int
 - (B) float
 - (C) class
 - (D) string
25. Which operator is overloaded for Cout object ?
- (A) >>
 - (B) <<
 - (C) <
 - (D) >

26. Which of the following is not a type of inheritance ?
- (A) Multiple
 - (B) Multilevel
 - (C) Distributive
 - (D) Hierarchical
27. Overloading is otherwise called as :
- (A) Virtual polymorphism
 - (B) Transient polymorphism
 - (C) Pseudo polymorphism
 - (D) Ad-hoc polymorphism
28. One of the basic concepts in object oriented programming approach is bundling both data and functions into one unit called as :
- (A) Simple variable
 - (B) Object
 - (C) Bundle
 - (D) Both (A) and (B)
29. Arrays are _____ data types.
- (A) Primitive
 - (B) Non-primitive
 - (C) User-defined
 - (D) Both (B) and (C)
30. The features of the base class are said to be inherited by the :
- (A) Constructor
 - (B) Protected class
 - (C) Private class
 - (D) Derived class

31. Multiple Inheritances is the process of inheriting a class from _____ class.
- (A) Single parent
 - (B) More than one child
 - (C) More than one parent
 - (D) Only one child
32. For inheritance, parent class member functions are invoked using :
- (A) Dot operator
 - (B) Scope resolution operator
 - (C) Colon operator
 - (D) → operator
33. Which of these file open modes do you use to write into the file.
- (A) ios :: ate
 - (B) ios :: in
 - (C) ios :: out
 - (D) ios :: app
34. The term _____ means the ability to take many forms.
- (A) Inheritance
 - (B) Polymorphism
 - (C) Member function
 - (D) Encapsulation
35. Which of the following operator can be overloaded through friend function ?
- (A) →
 - (B) =
 - (C) ()
 - (D) *

36. The operator << when overloaded in a class :
- (A) Must be a member function
 - (B) Must be a not a member function
 - (C) Can be both (A) and (B) above
 - (D) Cannot be overloaded
37. Which members of a base class are never accessible to a derived class :
- (A) Public
 - (B) Private
 - (C) Protected
 - (D) (A), (B) and (C)
38. The polymorphism can be characterized by the phrase :
- (A) One interface, multiple methods
 - (B) Multiple interfaces, one method
 - (C) One interface, one method
 - (D) None of the above
39. You separated a derived class name from its access specifier with :
- (A) A colon
 - (B) Two colons
 - (C) At least one space
 - (D) A Semicolon
40. In case of multiple inheritance a derived class inherits :
- (A) Only the public member functions of its base classes
 - (B) Only the public data members of its base classes
 - (C) Both public data members and member functions of all its base classes
 - (D) None of above
