

C.U.SHAH UNIVERSITY

Winter Examination-2022

Subject Name: OOPs using C++

Subject Code: 5CS01CPC1

Branch: M.C.A.

Semester: 1

Date: 17/03/2023

Time: 10:30 To 01:00

Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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SECTION-I

Que-1 Attempt all the following short questions. [7]

1. Define the Term: Identifier
2. Define polymorphism.
3. What is keyword? Give some examples of it.
4. Write down syntax of if...else statement.
5. Give 2 differences between C and C++.
6. What is the role of destructor?
7. Define array.

Que-2 Attempt all questions. [14]

1. Write a short note on basic concepts of OOPs. [7]
2. Discuss class and object with syntax and example. [7]

OR

Que-2 Attempt all questions. [14]

1. What is constructor? Explain default and parameterized constructors with example. [7]
2. Define inheritance. Discuss various types of inheritance. Give example of single inheritance. [7]

Que-3 Attempt all questions. [14]

1. What is function overloading? Explain with example. [5]
2. Discuss public, private and protected access specifiers. [5]
3. Explain friend function with example. [4]

OR



- Que-3 Attempt all questions.** [14]
1. Write down any five differences between POP & OOP. [5]
 2. Explain switch statement with example. [5]
 3. Discuss for and while loop with syntax. [4]

SECTION-II

- Que-4 Attempt all the following short questions.** [7]
1. What is the role of Exception handling in C++?
 2. What is the use of int & float data type?
 3. List out arithmetic and relational operators.
 4. Define the term: stream.
 5. What is file?
 6. Which header file is required to use manipulators?
 7. Give any two ios class function names to format output.

- Que-5 Attempt all questions.** [14]
1. What is operator overloading? Explain unary operator overloading with example. [7]
 2. What is pointer? Explain call by reference with example. [7]

OR

- Que-5 Attempt all questions.** [14]
1. Write a note on exception handling mechanism. [5]
 2. What is namespace? Explain how to define a namespace. [5]
 3. Describe various file open modes. [4]

- Que-6 Attempt all questions.** [14]
1. Discuss inline function with example. [7]
 2. Explain method overriding with example. [7]

OR

- Que-6 Attempt all questions.** [14]
1. Write a CPP program to check whether entered number is prime or not using class. [7]
 2. Write a CPP program to add two time objects by passing object as function argument. [7]

