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Shivaji University, Kolhapur

Kamala College, Kolhapur

B.C.A (Part - I) (Semester - II) (CBCS) Examination

June -2022

Object Oriented Programming Using C++ (AS -203)

Sub. Code: 80870

Day and Date: Monday, 13/06/2022

Total Marks: 70

Time: 10:30 am to 01:30 pm

- Instructions: 1) Que.1 and Que. 6 are compulsory and attempt any
Three Questions from Que. No. 2 to Que. No. 5
2) Figures to the right indicate marks.

Q 1.A) Multiple Choice Questions

[10]

1.) A constructor is called whenever

- a) an object is declared
c) a class is declared

- b) an object is used
d) a class is used

2.) For a method to be an interface between the outside world and a class, it has to be declared

- a) private
c) public

- b) protected
d) external

3.) cout stands for

- a) class output
c) common output

- b) character output
d) call output

4.) The fields in a class, of a C++ program are by default

- a) protected
c) private

- b) public
d) none of the above

5.) Which of the following is the correct syntax to add the header file in the C++ program?

- a) #include<userdefined>
- b) #include "userdefined.h"
- c) <include> "userdefined.h"
- d) Both A and B

6.) Which of the following is the correct identifier?

- a) \$var_name
- b) VAR_123
- c) varname@
- d) None of the above



7.) Which of the following features must be supported by any programming language to become a pure object-oriented programming language?

- a) Encapsulation
- b) Inheritance
- c) Polymorphism
- d) All of the above

8.) Which of the following statements is correct about the friend function in C++ programming language?

- a) A friend function is able to access private members of a class
- b) A friend function can access the private members of a class
- c) A friend function is able to access the public members of a class
- d) All of the above

9.) Which of the following is not a kind of inheritance?

- a) Distributed
- b) Multiple
- c) Multi-level
- d) Hierarchal

10.) How can one implement the run-time Polymorphism in the C++ programming language?

- a) By using the Template



- b) By using the concepts of inheritance
- c) By using both the virtual functions and inheritance
- d) By using only the virtual functions

Q 1.B) Write short answer (Any two out of three)

[10]

- a) Explain structure of c++.
- b) What is friend function?
- c) Define constructor and types of constructor

Q2.) What is static data member and static member function?

[10]

Q3.) Explain concept of inheritance also give an example for multiple inheritance [10]

Q4.) Write a program that would print the information (name, year of joining, salary, address) of three employees by creating a class named 'Employee'.

Q5.) Write notes on (Any four out of six)

[20]

- a.) this pointer
- b.) do while loop
- c.) Destructor
- d.) Dynamic memory allocation
- e.) Virtual Function
- f.) goto statement
