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PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024

(Fourth Semester)

Branch - MATHEMATICS

C++ PROGRAMMING

SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks (5 x 1 = 5) 1. Which is not a feature of OOP in general definitions? (i) Efficient Code (ii) Code reusability (iii) Modularity (iv) Redundant data 2. C++ that has the ability to create new data types is called a (i) Overloaded (ii) Extensible (iii) Reprehensible (iv) Encapsulated 3. An inline function is expanded during (i) compile-time (ii) run-time (iii) never expanded (iv) end of the program 4. How many parameters does a default constructor require? (i) 1 (ii) 2 (iii) 0 (iv) 3 5. Which type of inheritance leads to diamond problem? (i) Single level (ii) Multi-level (iii) Multiple (iv) Hierarchical SECTION - B (15 Marks)
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SECTION - B (15 Marks)
Answer ALL Questions
ALL Questions Carry EQUAL Marks $(5 \times 3 = 15)$
6 a. List out any three basic concepts of OOP's.
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b. What are the Applications in C++ programs?
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7 a. Write short note on Tokens.
OR Benefit of Organitor
b. Explain about Scope Resolution Operator.
0 What are the difference between cell by and return by reference?
8 a. What are the difference between call by and return by reference? OR
b. Explain about Nested member functions.

9 a. Write note on Copy Constructors with Example.

OR

- b. Explain about Type Conversions.
- 10 a. Explain about Dynamic Constructors.

OR

b. Discuss about EOF with Example.

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a. Briefly explain about Benefits of OOP's.

OR

- b. Write detail notes on Structure of C++ Program.
- 12 a. What are the difference between Operator Overloading and Overriding?

OR

- b. Write in detail notes on Branching statement.
- 13 a. Describe the concept of Virtual functions.

OR

- b. Brief notes on Arrays and its types.
- 14 a. Write detail notes on Destructors.

OR

- b. Explain in detailed about Manipulation of String using operators.
- 15 a. Describe the following concept of

(i) Single Inheritance

(ii) Multiple Inheritance.

OR

b. Write the detail notes on Sequential I/O operations.

END