### Shri Jain P G College, Bikaner

Total No. of Questions: 11 ]

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## अ जैन (पी.जी.) कॉलेज, बीकानेर

## **BPP-1091**

# M.Sc. (Previous) Examination, 2022 COMPUTER SCIENCE

MCS - 102

(Object Oriented Programming (OOP))

Time: 3 Hours]

[ Maximum Marks: 50

Section-A

(Marks :  $2 \times 10 = 20$ )

Note: Answer all ten questions (Answer limit 50 words). Each question carries 2 marks.

Section-B

 $(Marks: 3 \times 5 = 15)$ 

Note: Answer all five questions. Each question has internal choice (Answer limit 200 words). Each question carries 3 marks.

Section-C

 $(Marks: 5 \times 3 = 15)$ 

Note: Answer any three questions out of five (Answer limit 500 words). Each question carries 5 marks.

### Section-A

- 1. (i) What is type Conversion?
  - (ii) What are Objects? How are they created?

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(iii)	What is Dynamic Binding?
(iv)	What is Garbage Collection ?
(v)	What are used finalize methods?
(vi)	What is String Buffer ?
(vii)	Who is the developer of Java ?
(viii)	What is Delegation ?
(ix)	What is Abstract Class?
(x)	Differentiate between Static data member and Static member functions.
Section-B	
Define Copy constructor in C++.	
Or	
Explain the use of Final Keyword in variable, methods and class.	
What are the rules for virtual function with suitable example?	
Or	
How can Templates be used for generic programming?	
What is Operator Overloading? Write a C++ program illustrating overloading	
NEW and DELETE keyword.	

Or

Write a program in Java containing a possible exception. Use a try block to throw it and a catch block to handle it properly.

5. Write the significance of Static Data Member in C++.

Or

Elaborate the structure of a C++ program.

2.

3.

4.

6. Define Function Overriding. Compare it with function overloading in Java.

Or

Write short notes on the following:

- (a) THIS
- (b) SUPER
- (c) INLINE
- (d) \*(asterisk)
- (e) INTERFACE.

#### Section-C

- 7. Describe in your own words what is meant by the term Dynamic Polymorphism with suitable example.
- 8. What is difference between an applet and a Java application? Explain suitable example.
- 9. What are C++ access modifiers? Explain with suitable example.
- 10. What are the different types of inheritance relationship?
- 11. Explain the properties of Friend Function with suitable example.