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Total No. of Questions: 11]

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BPP-1109

M.Sc. (Previous) Examination, 2022 INFORMATION TECHNOLOGY

Paper - MIT-102

(OOPs with C++)

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 limit200 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) Define OOPs.
 - (ii) Write the character set of C++.

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	Give	any five manipulation in C++. Explain each with a suitable example.
		Or
6.	What	are different stream classes in C++?
	What	is Abstraction ? How is it implemented in C++ ? Explain.
		Or
5.	Differ	rentiate function overloading and function overriding.
	Write	a note on addressing of a one dimensional and two dimensional array.
		Or
4.	What	do you understand by dynamic array ? Why is it important ?
	How	pointers can be passed in a function ? Give example.
		Or
3.	Write	a program to show how a function can be called by value and by reference.
	Expla	in operator precedence and associativity.
		Or
2.	Differ	rentiate procedural and object oriented programming.
		Section-B
	(x)	Give any <i>five</i> additional features of C++ from C++11/C++14/C++17.
	(ix)	Define inline function.
	(,,,,,)	of a class.
	(viii)	Give light on the concept of member functions and non-member functions
	(vii)	Differentiate class and object.
	(vi)	What is Inheritance ?
	(v)	Define Reference.
	(iii) (iv)	Give any <i>five</i> library functions.
	(iii)	Explain range of a datatype.

Section-C

- 7. What are the benefits of OOPs? Write different characteristics of OOPs.
- 8. What is Recursion? How is it useful? Explain how a recursive function works when we use it for finding factorial.
- 9. What is Structure? How is it different from array? Write a program to create a dynamic structure.
- 10. Define constructor and destructor. Explain various types of constructor. Write a program for copy constructor ?
- 11. What do you understand by operator overloading? Explain operator overloading with member function and friend function.

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