NEW

2017

BCA

4th Semester Examination

OOPS USING C++

PAPER-2201

Full Marks: 100

Time: 3 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer Q. No. 1 and any four from the rest.

1. Answer any five questions:

 5×2

(a) What is class and how it accomplish data hiding?

- (b) Define scope and life of a variable?
- (c) What are the properties of static member function?
- (d) Name the operators that cannot be overloaded?
- (e) What is an abstract class?
- (f) Differentiate between static and dynamic polymorphism.
- (g) What are the applications of 'this' pointer.
- 2. (a) What is function overloading? Write a C++ program to implement function overloading.8
 - (b) Describe different types of modifiers in C++ with example?
- (a) Explain the use of 'new' and 'delete' operator with suitable example.
 - (b) What is the application of scope resolution operator:: in C++, explain with the help of suitable examples.

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allocation. Also explain the concept.

(c) Write a C++ program to show dynamic memory

4.	(a)	What is constructor? Describe the types of constructor	
		each with example.	0
	(b)	Explain the advantages and disadvantages of declaring	ıg
		member function inside and outside the class.	5
5.	(a)	Explain multiple and multi-level inheritance each	h
		with suitable example?	8
	(b)	What is virtual function? Give the rules for virtual	al
a a		functions?	5
6.	(a)	Describe the various file open modes.	4
	(b)	What is exception handling? Discuss the need	of
		exception with try, catch and throw keywords. 6+2	2
	(c)	What is void pointer? Give and example in C++.	3
7.	Write short notes on the following (any three): 3		
	(a)	Encapsulation	

- (b) Inheritance
- (c) Pointer to a object
- (d) Polymorphism
- (v) Message passing.

[Internal Assessment — 30]