Roll	No.	

Total No. of Questions: 9] [Total No. of Printed Pages: 4 (2111)

BCA (CBCS) RUSA IIIrd Semester Examination

4516

OBJECT ORIENTED PROGRAMMING WITH C++

BCA-0304

Time: 3 Hours]

[Maximum Marks: 70

Note: Attempt five questions in all. Question No. 1 (Part A) is compulsory containing 10 fill in the blanks of I mark each and five short answer questions of 4 marks each. Select one question each from Parts-B, C, D and E.

Part-A

(Compulsory Question)

- Fill in the blanks:
 - The ability of a function or operator to act in (i) different ways of different data types is called

-580

Turn Over

3	-58	0 (2)	C	-58	0
		and Assignment operator (=) ?		(0)	the help of
	(i)	What is the difference between equal to (= =)		(b)	Explain the
	Shor	t answer type questions (25 to 50 words):	Э.	(a)	Explain struare accesse
		the same in a program. 1×10=10	_	(a)	help of exa
	(x)	In function overloading, two functions can have		(b)	Explain if-
	(ix)	An is a instance of a class.		_ 6	numbers.
		task is to initialize the objects of its class.	4.	(a)	Write a pro
	(viii)	A is a special member function whose		IR.	
		A method does not return a value.			
		The state of the s		(b)	Define vari
	(VI)	design.			with examp
	(vi)	OOPs follow approach in program	3.		Explain the
	(v)	Variable of a class is called	۷.	_	ramming lan
			2.	Expl	ain various
	(iv)	A function with no return type is declared as			
		accessed by inherited classes.			
	(iii)	member function can never be		(v)	Explain wi
		class respectively.		(v)	What is the
		then A and B are known as class and		(iv)	What is cla
	(ii)			(iii)	What are t
	/::\	If class A inherits its properties from class B,		(ii)	Explain sco

- (ii) Explain scope resolution operator.
- the comments in C++?
- ass?
- e role of protected access specifier? ith example. 4x5=20

Part-B

Unit-I

- characteristics of object oriented nguage. 10
- e basic structure of C++ program ple.
 - iable in C++. Explain with example.

Part-C

Unit-II

- ogram in C++ to print first 10 natural
 - else and switch statements with the 5+5=10
- ructures. How the structure members
 - concept of overloaded function with example. 5+5=10

(3)

Turn Over



Part-D

Unit-III

- 6. (a) Define Constructors. What is the use of a constructor? Explain.
 - (b) Describe objects and classes. What are the components of a class? 25 5+5=10
- 7. (a) Explain Array. How the elements of an array can be accessed? Explain with example.
 - (b) Explain Multidimensional arrays. How an array can be initialized? Describe. 5+5=10

Part-E

Unit-IV

- 8. (a) Define operator overloading. Explain the limitations of increment operator.
 - (b) -Explain the pitfalls of operators overloading and conversion. 5+5=10
- 9. (a) Explain the concept of derived class and base class.
 - (b) Define Inheritance. Explain its types. 5+5=10