## RC-3734

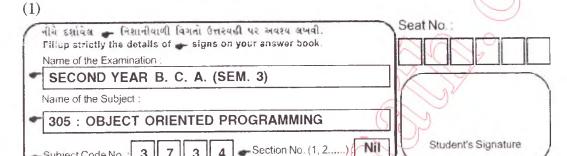
## Second Year B. C. A. (Sem. III) Examination March / April - 2017

305 : Object Oriented Programming

Time: Hours] [Total Marks: 70

## Instructions:

-Subject Code No. :



- All questions are compulsory (2)
- Figures to the right indicate full marks. (3)

3

1 Answer any ten. 10

- (1)What is static binding?
- What is the application of scope resolution operator (::) (2)in C++?
- How does a constant defined by 'const' differ from the (3)constant defined by the preprocessor statement '#define'?
- What is Destructor? (4)
- (5) List out the operators that cannot be overloaded.
- What is pure virtual function? (6)
- What is the advantage of new over malloc ()?
- What is the difference between private and protected (8)visibility modes?
- What is stream? (9)
- (10) State the difference between ios::app and ios::ate mode.
- (11) What is constructor with default argument?

[Contd...

http://V\\2SC	BUDAt	oZeneth comed-Result, Syllabus, Question Paper, Programs of BCA,	BBA
	(a)	Explain function overloading with example.	7.5
	(b)	Explain any three concepts of OOP.	7.5
		OR	
2	(a)	What is the major use of data members and member functions as static? Explain it with example.	7.5
	(b)	Explain reference variable. Give its application with example.	7.5
3	Do	as directed:	15
	(a)	Explain constructor with example.	
	(b)	Explain operator overloading with example.	
		OR	
3	(a)	What is inheritance? Explain multiple inheritance with example.	7.5
	(b)	What is containership ? How does it differ from	7.5
		Inheritance ? Give example.	
4	Atte	empt any two:	15
	(a)	Explain Exception handling in C++ with example.	
	(b)	Explain virtual base class with example.	
	(c)	Write a note on data abstraction and encapsulation	
	(d)	Demonstrate virtual base class with example.	
5	Atte	empt any two:	<b>15</b>
	(a)	Design a classes Rupee and Pound such that they support the followings:	
	11	Rupee R1, R2;	
5		Pound P1, P2;	
2	1	P1 = R1 - Converts Rupee to Pound	
((	17	R2 = P2 - Converts Pound to Rupee	
	)	Write a program in C++ which carries out conversion operation.	

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- (b) WAP to maintain telephone directory using Array of objects. Program should provide menu like
  - (1) Entry (Enter a new record)
  - (2) Search (Search the contact no. of given name, if exists)
  - (3) Display all entry
  - (4) Exit
- (c) Design single manipulators to provide the following output specification for printing float value.
  - (1) 15 column width
  - (2) 4 digit precision
  - (3) Left justified
  - (4) Filling unused space with #
  - (5) Display the trailing zeros.