

III Semester B.C.A. Degree Examination, Nov./Dec. 2015 (Y2K14 Scheme) (CBCS) COMPUTER SCIENCE

BCA - 303 : Object Oriented Programming using C++

Time: 3 Hours Max. Marks: 70

Instruction: Answer all Sections.

SECTION - A

		SECTION - A	
1.	An	nswer any ten questions : (10×2	=20)
	1)	Define polymorphism. How is it accomplished in C++?	
	2)	What are keywords? Mention any two.	
	3)	Why do we require const Qualifier?	
	4)	What is the use of scope resolution operator in C++?	
	5)	List the operators which cannot be overloaded.	
	6)	Define constructor.	
	7)	What are the advantages of operator overloading?	
	8)	Define base and derived class.	
	9)	What are templates?	
	10)	Define pure virtual functions.	
	11)	What is the use of this pointer?	
	12)	Define stream.	
		SECTION - B	
11.	Ar	nswerany five questions: (5×10)=50)
	13)	a) What are inline functions? List its advantages and disadvantages.	4
		b) Explain any five basic concepts of oop.	6
	14)	a) Define Manipulators. Explain with examples any three manipulators.	6
		b) What is a friend function? Explain with a suitable example.	4



15)	a)	What are access specifiers used for ? Explain the concept of protected	
		access specifier. (2000) (amanag hragy)	6
	b)	Explain the concept of static members of a class with examples.	4
16)		List the characteristics of a constructor.	4
	b)	Write a C++ program to illustrate the concept of constructor overloading.	6
17)	a)	What are the rules followed to overload an operator in C++?	4
	b)	Write a C++ program to explain the concept of unary operator overloading.	6
18)	a)	Explain different types of inheritance with examples.	4
	b)	Explain in detail the types of polymorphism in C++.	6
19)	a)	Write a C++ program to sort elements using templates.	4
	b)	What is exception handling? Exception how does it differ from error?	
		Explain the different blocks in exception handling mechanism.	6
20)		Explain seekg() and tellg() functions.	4
	b)	Write a program to show returning current object accessing member data	
		of current object and returning values of object using this pointer	6

13) a) What are inline functions? List its advantages and disadvantages.