

II Semester B.C.A. Examination, May 2017 (Repeaters) (Y2K8 Scheme) COMPUTER SCIENCE

BCA - 204: Object Oriented Programming Using C++

Time: 3 Hours

Max. Marks: 70

Instructions: 1) Answer Section A, B, C.

 Candidates who have taken admission in 2011 and onwards they must attend Section – D. (Section – D applicable to 2011-12 and Onwards).

SECTION - A

Answer any ten questions. Each question carries one mark.

 $(10 \times 1 = 10)$

- 1. What is an object?
- 2. What is the need of header files in C++?
- Mention the important features of C++.
- 4. What are inline functions?
- 5. What is the use of scope resolution operator?
- 6. Mention the different types of constructors.
- 7. Name any two operators that cannot be overloaded.
- 8. List out the different forms of inheritance.
- 9. What is polymorphism?
- 10. What is the usage of templates in OOPs?
- 11. What is a stream?
- 12. What is the usage of seekg ()?

example.

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	SECTION - B	
Ans	wer any five questions. Each question carries three marks: (5×	3=15)
13.	Explain the characteristics of OOP's.	
14.	What is const. qualifier ? Explain with an example.	
15.	How is a function declared in C++?	
16.	Define an array of objects in a class.	
17.	Write any three rules for operator overloading.	
18.	With an example explain friend function.	
19.	With an example explain the concept of function overloading.	
20.	What is a function template ? Explain.	
	SECTION - C	
Ans	swer any five questions. Each question carries seven marks : (5×	7=35)
21.	a) Compare procedure-oriented programming and object-oriented programming.	4
	b) Explain data members and member functions.	3
22.	a) Describe any three data types in C++.	3
	b) What are the differences b/w call by value and call by reference ?	4
23.	What are constructors and destructors? How do they differ from the normal function? Explain with examples?	7

24. Write a C++ program to overload '+' operator to perform addition of two matrices?

25. What are the benefits of inheritance? Explain inheritance technique with an