B. Tech. DEGREE EXAMINATION, NOVEMBER 2016

Third Semester

15SF 2011	ODBECT	CORPUS CERTIC	PROGRAMMINO	· · · · · · · · · · · · · · · · · · ·
Charles	CODIFCI	ORIENTED	PROGRAMMING	1681106++

Note:	(For the earth dates admitted during	IED .	PROGRAMMING USING C++ sademic year 2018 - 2016 onwards)
(i) (ii)	Part - A should be answered in OMR she over to hall invigilator at the end of 45th m Part - B and Part - C should be answered	et wit	nin first 45 minutes and OMR sheet should be handed
Time: Th	iree Hours		Max. Marks: 100
	PART – A (2 Answer A	0 × 1	= 20 Marks)
	hich of the following approach is adop) Top-down) Right-left	oted b	y C++? B) Bottom-up D) Left-right
()	ich of the following is an abstract data Int String	(B	?) Double) Class
(A)	ot is a/an Operator Object) Function) Macro
4. How (A) (C)		(B)	need to be presented in C++?
(A)	tion overloading is similar to which o Operator overloading Destructor overloading	(B)	following? Constructor overloading Overriding
(A) F d (C) F se 7. Derivin (A) M	efinition of its own unction which does not have any ection type og a derived class from more than or ultilevel inheritance	(D) ne bas (B)	Single inheritance
8. If class	erarchical inheritance A is friend of class B and if class		Multiple inheritance friend of class C, which of the following is
(C) Cla	ass C is friend of class A and class C do not have any ad relationship		

8.

9. If a member needs to have unique va	lue for all the objects of that same class, declare the
(A) Global variable outside class (C) Static variable inside class	(B) Local variable inside constructor
10. Which of the following operators that ca	(D) Dynamic variable inside class
(C) Momb	(B) Size of operator
(C) Member selector	(D) <<
(A) Protect (C) Protect	1. 0 1.
(C) Protect	re by default (B) Private
(C) Public	(D) Static
12. How many types of output stream classe	
(A) 1 Spes of output stream classe	s are there in C++>
(C) 3	(B) 2 (D) 4
13. What is	(D) 4
13. What is meant by of stream in C++? (A) Writes to a file	
(C) Both A and B	(B) Reads from a file
	(D) Copy from a file
14. Which header file is used for reading and (A) #include <costream></costream>	writing to a file?
	(B) #include < fstream >
(C) #include < file >	(D) #include < filestream >
15. What kind of exceptions are available in C	
(it) Handled	(B) Unhandled
(C) Static	(D) Dynamic
16 How to J.C. d	
16. How to define the user-defined exceptions	? (D) () (1) (1) (1) (1)
(A) Inheriting and overriding exception class functionality	(B) Overriding class functionality
(C) Inheriting class functionality	(D) Overloading class functionality
•	(a) a versual gold by railer brainty
17. Template is used(A) To manipulate the class	(D) Farancia de 11
(C) For creating member functions	(B) For creating the attributes(D) For creating a generic class
	(b) For creating a generic class
18. What do vectors represent?	
(A) Static arrays	(B) Dynamic arrays
(C) Stack	(D) Queue
19. An STL algorithm is	
	(B) A link between member functions and
on containers	containers
(C) A friend function of appropriate (** *
container classes	container classes
20. In an associative container	
	B) Use the sort() algorithm to keep the
numerical order	contents sorted
(C) Values are stored in sorted order (1)	D) Keys are stored in sorted order

18NF315SE201J

$PART - B (5 \times 4 = 20 Marks)$ Answer ANY FIVE Questions

- 21. Write a C++ program to find the sum of natural numbers using for loop.
- 22. What is the use of inline function? Give an example.
- 23. Write the functions of constructor and destructor. Give an example.
- 24. Define: Polymorphism. Give an example.
- 25. Brief about manipulators in stream classes.
- 26. What are templates? Give an example for defining class template.
- 27. List all the iterators in standard template library.

$PART - C (5 \times 12 = 60 Marks)$ Answer ALL Ouestions

28. a. Discuss in detail about functions and recursive function with example.

(OR)

- b. What are arrays? Write a C++ program for multiplying two matrices.
- 29. a. Discuss in detail about the object-oriented features.

(OR)

- b. A base class student contains the data members stud-no, stud-name, date of birth department, grade and another base class faculty is containing the data members staff-id, name, department, specification, age designation. Define a class report having all the members of student and faculty. Display all the information in report using a function display ().
- 30. a. Discuss in detail about stream classes with suitable examples.

(OR)

- b. Explain about file pointers with an example.
- 31. a. Discuss about exception handling in C++ with a suitable example.

(OR)

- b. Write a temperature function that returns the average of all the elements of an array. The arguments to the function should be the array name and the size of the array (type int). In main (), exercise the function with arrays of type int, long double and char.
- a. Discuss in detail about containers in standard template library.

(OR)

b. Write about algorithms in standard template library. Write a program that applies the sort() algorithm to an array of values and displays the result.