

c14-cm-405/c14-it-405

4453

BOARD DIPLOMA EXAMINATION, (C-14) MARCH/APRIL—2016

DCM—FOURTH SEMESTER EXAMINATION

OOPS THROUGH C++

Time	e: 3 hours]		[Total Marks: 80
	PART—A		3×10=30
Instr	ructions: (1) Answer all questions.		
	(2) Each question carries	three mar	ks.
	(3) Answers should be brief shall not exceed <i>five</i> s		-
1.	Write any three differences between object-oriented programming.	procedui	re-oriented and 3
2.	What is data encapsulation?		3
3.	What is overloading? List the differ techniques.	ent types	of overloading 2+1=3
4.	Define inline function.		3
5.	List the uses of reference variable in	C++.	3
6.	What is single inheritance? Write inheritance.	e the sy	ntax of single 1+2=3
7.	Write the different types of access n	nodes.	3
8.	What is the need of virtual base cla	ss?	3
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10.	Define a function template.		3	
	PART—B	10×5=	50	
Instructions: (1) Answer any five questions.				
	(2) Each question carries ten marks.			
	(3) Answers should be comprehensive and for valuation is the content but not the answer.			
11.	(a) Explain the structure of C++ program.			
	(b) Write a C++ program that implements the initialization of a variable.	dynamic 5+5=	10	
12.	Write a C++ program that finds the maximum of two using friend function.		10	
13.	(a) Write the differences between constructor and dest	tructor.		
	(b) Write a C++ program to illustrate the binary overloading.	operator 5+5=	10	
14.	Write a C++ program that illustrates the concept of pobjects.		10	
15.	Explain the multiple inheritance with an example pr	rogram.	10	
16.	Write a C++ program that implements virtual function	on.	10	
17.	(a) What are file modes? Describe various file mode	options.		
	(b) Write about formatted data and unformatted data	ta. 5+5=	10	
18.	Explain class template with an example program.		10	

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9. List the different types of manipulators.

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