## 322415(22)

## B. E. (Fourth Semester) Examination, 2020

(Old Scheme)

(CSE, IT Branch)

## OBJECT ORIENTED CONCEPTS & PROGRAMMING USING C++

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: All questions are compulsory. Part (a) from each question is compulsory and carries 2 marks. Any two parts out of (b), (c) and (d). Each part is of 7 marks.

## Unit - I more languages (in)

1. (a) Explain any two user defined data type with example.

2

	[2]	
(b)	State the main features of object oriented	
	programming. Explain any three in brief.	7
(c)	What are the various operators available in C++?	
	Describe the operators which were not available in C.	7
(d)	What do you mean by function? Explain call by	
, ,	value and call by reference using suitable example.	7
	Unit - II	
(a)	Explain meaning of class and it's use.	2
(b)	Define static data member. Explain with suitable	
	C++ code.	7
(c)	What is a friend function? What are the merits and	
	demerits of using a friend function.	7
(d)	Write short note on :	7
	(i) Data Hiding	
	(ii) Encapsulation	
	Unit - III	

2.

[ 3 ]						
	(b)	What are constructors? Explain any three with				
		example.	7			
	(c)	What do you mean by function overloading?				
		Explain with example.	7			
	(d)	Why destructer is important? Explain with example.	7			
		Unit - IV				
4.	(a)	What is pointer?	2			
	(b)	What are various type of inheritance? Explain				
	. ,	Hybrid inheritance with help of example.	7			
	(c)	Explain virtual function with example.	7			
	(d)	Write short note on: $3\frac{1}{2} \times 2 =$	7			
		(i) Pointer to object				
		(ii) Abstract classes				
Unit - V						
5.	(a)	What are templates?	2:			
	(b)	Explain the following file handling function with				
		proper syntax for each:	7			

3. (a) What do you mean by polymorphism.

(i) read ( ) and the manufacture are tall of			
(ii) eof			
(iii) write ( )			
(iv) seek p ( )			
(v) tell p ( )			
(vi) seek g ()			
(vii) tell g ( )			
	What is binary file? List the merits and demerits of		
binary file using C++.		7	
(d) Explain the concept of exception in OOPs.		7	
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