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### SF-05-2022

#### FACULTY OF COMPUTER STUDIES

# B.Sc. (Second Year) (Third Semester) EXAMINATION

### **MAY/JUNE**, 2022

## (CBCS/Revised Pattern)

COMPUTER SCIENCE

(Object Oriented Programming)

	(Object Offented Frog.	simming)		
(Wednes	sday, 29-06-2022)	Time: 02.00 p.m. to 05.45 p.m.		
Time— 3.45 Hours		Maximum Marks—75		
<i>N.B.</i> :—	(i) All questions are compulsory.			
	(ii) Figures to the right indicate fu	ll marks.		
	(iii) Assume suitable data, if require	ed. 7 (2) (2) (3) (3)		
1. Att	tempt any five of the following (3 mar	rks each): 15		
(a)	Explain rules for overloading.			
( <i>b</i> )	Explain pointer to member.			
(c)	WAP to demonstrate destructor.			
(d)	Explain call by reference.			
(e)	Explain benefits of OOPs.	\$ \$\frac{1}{2}\frac{1}		
(f)	Explain application area of OOPs.			
(g)	Explain formatted I/O operations.			
2. Att	tempt any three of the following (5 m	arks each): 15		
(a)	Explain basic concepts of OOPs.			
(b)	Explain scope resolution operators	in detail.		
(c)	Explain inline function with exam	ple.		
(d)	WAP to demonstrate function over	rloading.		
(e)	Explain visibility modes in C++.			
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3.	Attempt any three of the following (5 marks each):			15
	(a)	Explain parameterized constructors.		
	( <i>b</i> )	Explain friend function with example.		
	(c)	Explain unary operator overloading.		
	(d)	WAP to demonstrate operator overloading.	MA A BOOK	
	(e)	Explain binary operator overloading.	5) / V / Y / Y / Y / Y	
(	Attempt any three of the following (5 marks each):		2002 E 30 V	15
	(a)	WAP to demonstrate pure virtual function.	33 2 4 0 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	, N
	( <i>b</i> )	Explain virtual base class with example.	TO SOLUTION OF THE PARTY OF THE	
	(c)	Explain multiple inheritance with example.	S. S. T. K. C.	
	(d)	WAP to demonstrate file handling.		
	(e)	Explain formatted function in C++.	\$	
5.	Attempt any three of the following (5 marks each):			15
	(a)	Explain virutal function with example.		
	( <i>b</i> )	Describe stream class in detail.		
	(c)	Explain how to convert class to basic.		
	(d)	Explain manipulators with example.		
	(e)	Explain opening and closing file.		