## NKT/KS/17/5100

## Bachelor of Science (B.Sc.) Semester–II (C.B.S.) Examination COMPUTER SCIENCE

## **COMPUTER SCIENCE**(Object Oriented Programming Using C++)

## Compulsory Paper-1

Time	e:T	hree	Hour	rs] [Maximum Ma	rks: 50
	N.B	.:-	(1)	All questions are compulsory and carry equal marks.	
			(2)	Draw neat and labelled diagram wherever necessary.	
	EIT	HER	2		
1.	(A)	Wha	at are	classes and objects? Describe syntax for declaring a class with suitable exam	nple. 5
	(B)	Exp	lain 1	features of OOP's.	5
	OR				
	(C)	Writ	te a p	program to implement class:	
		(I)	Data	a member	
			(i)	Name of cricket player	
			(ii)	Score in last two matches.	
		(II)	Mer	mber function	
			(i)	To assign initial values	
			(ii)	To compute total and average score	
			(iii)	To display data.	5
	(D)	Wha	at is	the purpose of static data member ? Explain with example.	5
	EIT	HER	2		
2.	(A)	Exp	lain t	the need of copy constructor with example.	5
	(B)	How	v is c	constructor invoked ? Explain usage of constructor giving suitable example.	5
	OR				
	(C)	Expl	lain c	default constructor with example.	5
	(D)	Expl	lain ı	unary operator overloading with example.	5
	EIT	HER	2		
3.	(A)	Wha	at is i	inheritance ? List its types. Explain single inheritance with example.	5
	(B)	Writ	te a p	program to illustrate the use of this pointer and explain.	5
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	OR					
	(C)	What is an abstract class ? How will you define it ? Give an example.	5			
	(D)	What is derived class? Explain giving suitable example.	5			
	EITHER					
4.	(A)	Draw and explain exception handling model.	5			
	(B)	Write a short note on fault tolerant design techniques.	5			
	OR					
	(C)	What are virtual functions? State rules for virtual functions.	5			
	(D)	How will you handle an uncaught exception ?	5			
5.	Atte	tempt all:				
	(a)	Explain private and public specifier.	21/2			
	(b)	Differentiate between constructors and destructors.	21/2			
	(c)	Explain multilevel inheritance.	21/2			
	(d)	What meaning does it convey:				
		(i) Hit the exception				
		(ii) Throw the exception ?	21/2			

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