memory access.

SEAT NO.:	
SEAT NO	

[Total No. of Pages: 2]

## S.E. 2012 (Computer) Object Oriented and Multicore Programming (Semester - II)

Time	e:2 H	Nours Me	ax. Marks: 50		
Instructions to the candidates:					
1) Neat diagrams must be drawn wherever necessary.					
		res to the right side indicate full marks.			
,	•	f Calculator is allowed.			
<i>4</i> )	Assur	me Suitable data if necessary			
O1)	۵)	Define the following towns	FO1		
Q1)	a)	Define the following terms  1. Class	[8]		
		2. Static data member			
		3. Inline function			
		4. Member access control			
	b)	Explain virtual destructor with example.	[4]		
	٠,	OR	Γ.1		
Q2)	a)	What is operator overloading? Write a program to overload	[8]		
- /	ĺ	1. Operator + for concatenation of two strings			
		2. Operator >> for reversing a given string			
		3. Operator << for displaying a given string			
	b)	What is static member function? Give a example for the same	[4]		
Q3)	a)	Explain following	[9]		
Q3)	u)	1. Generic Programming	[5]		
		2. RTTI			
		3. Early binding and late binding			
	b)	What are core operating system services?	[3]		
	٠,	OR	[6]		
Q4)	a)	How to handle multiple exceptions occurred in a program?	[5]		
•	b)	What is POSIX_SPAWN () function? How to create a child process using			
	,	POSIX_SPAWN () function? Explain with example			
Q5)	a)	Explain following:	[8]		
<b>Q</b> 5)	α,	1. Hardware thread	[~]		
		2. Software thread			
		3. Hybrid thread			
		4. User level thread			
	b)	Explain contention scope of a thread	[5]		
		OR			
Q6)	a)	Explain method of thread creation and joining with suitable code.	[8]		
~ /	b)	Explain scheduling policies of a thread.	[5]		
	,				
Q7)	a)	Explain different ARAM and Explores rectited concurrence and explusive	[5]		

b)	b)	Explain following	[8]
	1. POSIX semaphore		
		2. MUTEX semaphore	
		With their respective operations	
		OR	
Q8)	a)	What are MUTEX attribute object functions?	[5]
	b)	Explain thread strategy approach.	[8]