Quiz # 3

Solution:

Semaphore A,B,C

A=0,B=0,C=1

int C1,C2=0

Function 1	Function 2	Function 3

void function1()
{wait(A)
cout<<"a";
signal(B)
}
	void function2()
	{wait(B)
	C2++
	cout<<"b";
	if(C2%2==0)
	signal(C)
	else
	signal(B)
	}
		void function3()
		{
		wait(C)
		C1++
		cout<<"c";
		if(C1%2==0)
		signal(A)
		else
		signal(C)
		}

Quiz # 4

32 bit logical address $=2^{32}$
4KB page size= 2^{12}
4 bytes page table entry

Total number of pages=$2^{32}/2^{12}=2^{20}=1M$
Total number of bits needed for page number =20bits

Now we have 1M pages and hence 1M page table entries and each entry size is 4bytes so
Size of the page table is =1M*4bytes=**4MB**