Quiz 3 & 4 BSCS-4H

Date: 15-May-23

Question # 1: [Marks: 5]

The process of hooking up hydrogen, sulfur and oxygen atoms to form sulfuric acid molecules (H2SO4). Each atom is represented by a separate thread, All you need to do is to associate two hydrogen atoms with one sulfur atom followed by 4 oxygen atoms. Use semaphores to accomplish this task.

Function 1 (Hydrogen)	Function 2 (Sulfur)	Function 3 (Oxygen)
void function1()	void function2()	void function3()
{	{	{
cout<<"H";	cout<<"S";	cout<<"O";
}	}	}

Question # 2: [Marks: 5]

Consider a machine with 64 MB physical memory and a 32 bit virtual address space. If the page size is 4 KB, what is the approximate size of the page table?