Course Code: CS220	**Course Name: Operating System**	
Instructor Name: Anaum Hamid	**Deadline: 15/12/2020**	
Marks: 20	**Section No: C/E**	

Consider a system using multilevel paging scheme. The page size is 16 KB. The memory is byte addressable and virtual address is 48 bits long. The page table entry size is 4 bytes.

Find-

1. How many levels of page table will be required?

2. What will be the size of inner page table?

3. What will be the size of outer page table?

4. Give the divided physical address and virtual address illustrated by a diagram of address translation.