1) Given the following task list:



 $\{T1(4,1),T2(7,2),T3(10,2)\}\ T(p,e)\ p: period\ e: execution\ time$

Apply the Rate Monotonic scheduling algorithm until t=20 (Single core CPU)

• Fill the following table:

Time (t)	1	2	3	4	5	6	7	8	9	10
Executing task	T1	T2	t2	Т3	Т1	Т3	T2	Т1	T2	πЗ
Time (t)	11	12	13	14	15	16	17	18	19	20
Executing task	Т3	Т1	Т2	Т2	T1					

What does a preemptive scheduler mean? It means that the execution can be stopped at any time
Is RM preemptive? No, since it stops when it should



At which points of time (t) and which tasks are preempted considering the table?

When they finish or the time is finished

- 2) Given tasks T1(5,4) and T2(2,1) and RM scheduler.
 - Are these tasks schedulable with RM? No
 - At which first point of time (t) do you see a problem? And what is the problem?

3) Given the following periodic task list:

T2(1t); T1(1t); T2(1t); T1(1t); T2 (here the T2 can not compute the the full tasks and we have a problem.

{T1(3,1),T2(5,2)}

Apply the EDF scheduling algorithm until t=20 (Single core CPU) and fill the table

Time (t)	1	2	3	4	5		7	8	9	10
Executing task	Т1	Т2	Т2	Т1	T2	TT	·I·Z	11.1	12	Т2
Time (t)	11	12	13	14	15	16	17	18	19	20
Executing task	Т1	12	Т2	Tl						
										