DS 5110 CPU Scheduling Worksheet

Consider the following set of four jobs (processes). Shown are the required CPU runtime of each process.

Job	Run-Time	Arrical Time
P1	8	O 1
P2	4	3 ←
P3	2	→ 4 J.
P4	1	4 1

Assume all jobs arrive simultaneously at time 0: a) Draw the Gantt charts to illustrate the execution of these 4 jobs with the following scheduling policies; b) Calculate the average turnaround time for each question.

Q1. Shortest Job First (SJF) 3
$$\frac{7}{4}$$
 $\frac{15}{7}$ $\frac{15}$ $\frac{15}{7}$ $\frac{15}{7}$ $\frac{15}{7}$ $\frac{15}{7}$ $\frac{15}{7}$ $\frac{15$

Q2. Round-Robin (RR) with a time slice of 3 (assuming the arrival order as follows: