

Exercise 5:

The activities of a project and related information of them is given in following table. Two renewable resources (R1,R2) and a nonrenewable one (R3) are needed for these activities. The available level of R1 and R2 are 8 and 4 respectively. The inventory level of resource R3 is zero at the beginning of planning horizon and it is increased by 50 units every period. Schedule these activities to reach a practical scheduling which satisfy all resource constrained.

Act. Name	Act. Time	predecessor	R1 Req.	R2 Req.	R3 Req.
A	2	-	0	2	50
B	2	-	4	1	50
C	3	-	4	3	100
D	4	A	2	2	50
E	3	B	3	1	150
F	3	B	0	2	100
G	7	C	5	0	50
H	2	D	3	2	100
I	4	E	0	2	200
J	5	F,G	6	0	50
K	3	H,I	0	3	100