1.
    a. T
    b. Q
    c. Q,R,S
    d. y=0, z=12,x=10,w=0
    e. Transaction T needs to be redone
2.
    a. <Q starts>
       <R starts>
       <Q,w,20>
       <R,x,5>
       <Q aborts>
       <R,y,0>
       <R commits>
       <S starts>
       <checkpoint record>
       <S,x,10>
       <T starts>
       <T,y,15>
       <S commits>
       --system crash--
    b. T
    c. none
    d. Q,R,S
    e. y=0, z=12,x=10,w=0
    f. Transaction T needs to be redone
3.
    a. You would have to undo transaction S
    b. none
4.
    a. a = 40, b = 100
    b. a = 30, b = 100
    c. That the order of execution matters
5.

Transaction S	Transaction T
read(a)	
	read(a)
a = a + 10	
	a = a * 2
write(a)	
	write(a)
read(b)	
b = b * 5	
write(b)	

6.

Transaction S	Transaction T
Growing Phase	*Growing Phase*
request exclusive lock (a) - granted	
read(a)	
	request exclusive lock (a) - denied
	request exclusive lock (a) - denied
a = a + 10	
write(a)	
	request exclusive lock (a) - denied
request exclusive lock (b) - granted	
read(b)	
b = b * 5	
write(b)	
Shrinking Phase	
release lock (a)	
	request exclusive lock (a) - granted
	read(a)
	a = a *2
release lock (b)	
	write(a)
	Shrinking Phase
	release lock (a)

The schedule can be executed and deadlock would not occur, it could occur if the schedule was slightly different but it would not in this specific instance.