



## Организација рачунара – КЗ решење

### 1.(20)

|       |                 |                          |
|-------|-----------------|--------------------------|
|       | LOAD #100h      | STORE MemSem1            |
|       | STORE MemCntA   | LOAD #100h               |
|       | LOAD #1000h     | STORE MemCntA            |
|       | STORE MemAdrA   | LOAD #2000h              |
|       | LOAD #1h        | STORE MemAdrA            |
|       | OUT FF10h       | LOAD #23h                |
| Crdy: | IN FF11h        | OUT FF20h                |
|       | AND #10h        | Wait1: LOAD MemSem1      |
|       | JZ Crdy         | CMP #1                   |
|       | IN FF12h        | JNZ Wait1                |
|       | STORE (MemAdrA) | HALT                     |
|       | INC MemAdrA     | Прекидна рутина за PER1: |
|       | DEC MemCntA     | PUSHA                    |
|       | JNZ Crdy        | LOAD (MemAdrA)           |
|       | LOAD #0h        | OUT FF22h                |
|       | OUT FF10h       | INC MemAdrA              |
|       | ...             | DEC MemCntA              |
|       | LOAD #0h        | JNZ Back                 |
|       | STORE MemSemDMA | LOAD #1                  |
|       | LOAD #100h      | STORE MemSem1            |
|       | OUT FF03h       | LOAD #0                  |
|       | LOAD #1000h     | OUT FF20h                |
|       | OUT FF04h       | Back: POPA               |
|       | LOAD #2000h     | RTI                      |
|       | OUT FF05h       | Прекидна рутина за DMA:  |
|       | LOAD #21h       | PUSHA                    |
|       | OUT FF30h       | LOAD #0h                 |
|       | LOAD #25h       | OUT FF30h                |
|       | OUT FF00h       | OUT FF00h                |
| WDMA: | LOAD MemSemDMA  | LOAD #1h                 |
|       | CMP #1          | STORE MemSemDMA          |
|       | JNZ WDMA        | POPA                     |
|       | ...             | RTI                      |
|       | LOAD #0h        |                          |

### 2. (20) Погледати материјале са предавања.