**Name : Mena Allah Akram Elsobky**

**Section :7**

**السؤال الاول :**

|  |  |
| --- | --- |
| **Fetch stage** | **Execute stage** |
| **Memory**   |  | | --- | | **1940** | | **5941** | | **2941** |   **cpu registers**   |  | | --- | | **300** | |  | | **1940** |      |  | | --- | | **0003** | | **0002** | | **Memory**   |  | | --- | | **1940** | | **5941** | | **2941** |   **cpu registers**   |  | | --- | | **301** | | **0003** | | **1940** |      |  | | --- | | **0003** | | **0002** | |
| **Memory**   |  | | --- | | **1940** | | **5941** | | **2941** |   **cpu registers**   |  | | --- | | **301** | | **0003** | | **5941** |      |  | | --- | | **0003** | | **0002** | | **Memory**   |  | | --- | | **1940** | | **5941** | | **2941** |   **cpu registers**   |  | | --- | | **302** | | **0005** | | **5941** |      |  | | --- | | **0003** | | **0002** | |
| **Memory**   |  | | --- | | **1940** | | **5941** | | **2941** |   **cpu registers**   |  | | --- | | **302** | | **0005** | | **2941** |      |  | | --- | | **0003** | | **0002** | | **Memory**   |  | | --- | | **1940** | | **5941** | | **2941** |   **cpu registers**   |  | | --- | | **303** | | **0005** | | **2941** |      |  | | --- | | **0003** | | **0002** | |

**السؤال التاني :**

**Answer :**

**Load**

**300 :1550**

**301 :1550 pc:300**

**302 :2600 Ac:0003**

**550 :0003 IR:1550**

**551 :0004**

**600 :0000**

**add**

**300 :1550**

**301 :1551 pc:301**

**302 :2600 Ac:0007**

**550 :0003 IR:1551**

**551 :0004**

**600 :0000**

**store**

**300 :1550**

**301 :1551 pc:302**

**302 :2600 Ac:0000**

**550 :0003 IR:2600**

**551 :0004**

**600 :0000**

**السؤال التالت**

**Answer:**

**300 : 3005**

**301 : 5940**

**302 : 7006**

**Device 5 : 0003**

**940 : 2**

**Device 6 : 0005**