**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ID: \_\_\_\_\_\_\_\_\_\_\_ Section: \_\_\_\_**

**Department of Computer Science and Engineering**

**CSE340: Computer Architecture   
Spring 2016**

**Quiz-2, A**

**Full Marks: 15 Time: 20 Mins**

1. What are the roles of a computer architect? **5**
2. Write MIPS code for the following C code: if (A [7] ==10) f=g [3] +C [5]; else f=f+C [3]; Assume base addresses for A, g and C are $s0,$s1 and $s2 respectively. 10

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**Department of Computer Science and Engineering**

**CSE340: Computer Architecture   
Spring 2016**

**Quiz-2, B**

**Full Marks: 15 Time: 20 Mins**

1. Draw the diagram of Harvard Model of computer. **5**
2. Write MIPS code for the following C code: if (A[6]==f) f=g[6]-C[2]; else f=g[5]+C[9]; Assume base addresses for A, g and C are $s0,$s1 and $s2 respectively and f is stored in $s3. **10**

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**Department of Computer Science and Engineering**

**CSE340: Computer Architecture   
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**Quiz-2, C**

**Full Marks: 15 Time: 20 Mins**

1. Compare between RISC and CISC architecture. **5**
2. Write MIPS code for the following C code: if (A[6]=!C[5]) f=g[6]-C[7]; else f=g[5]-C[3]+f; Assume base addresses for A, g and C are $s0,$s1 and $s2 respectively and f is stored in $s3. 10

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ID: \_\_\_\_\_\_\_\_\_\_\_ Section: \_\_\_\_**

**Department of Computer Science and Engineering**

**CSE340: Computer Architecture   
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**Quiz-2, D**

**Full Marks: 15 Time: 20 Mins**

1. Define Multiprocessor system with diagram. **5**
2. Write MIPS code for the following C code: if (A[6]=!f) f=g[8]+C[2]+A[6]; else f=g[5]+C[3]; Assume base addresses for A, g and C are $s0,$s1 and $s2 respectively and f is stored in $s3. 10

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ID: \_\_\_\_\_\_\_\_\_\_\_ Section: \_\_\_\_**

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**Quiz-2, E**

**Full Marks: 15 Time: 20 Mins**

1. Define Datapath with diagram. **5**
2. Write MIPS code for the following C code: if (A[3]==C[4]) f=g[6]-C[5]+f; else f=g[5]+C[6]+f; Assume base addresses for A, g and C are $s0,$s1 and $s2 respectively and f is stored in $s3. 10