

# CS2630: Computer Organization

## Midterm practice

Since there are no past midterms to look at, this document provides some practice questions. The questions are the type you should expect.

The best way to use this practice is to take it like you are taking a real exam. One caveat is that the length of the practice exam is *not* representative of the length of the midterm, so you will probably take more than 75 minutes on the practice. Grade yourself with the solutions *after* you've taken this practice.

The exam will be open book/open note. No electronics. Show your work when appropriate.

### Binary / number representation

1. How many things can you name uniquely with  $N$  bits?  $2^N$
2. What is the result of the following expression? Assume the integers are 32-bit. Give your answer in decimal.

$(6 \ll 2) | 1$   
**25**

3. What is the least number of bits needed to store the number 0x4023 when using two's complement?

**0100 0000 0010 0011**

**valid answer might be 15 or 16**

4.  $X$  is a variable holding an integer. Give an expression using only  $X$  and bitwise operations that evaluates to 0 if  $X$  has a 0 in the least significant bit and 1 if  $X$  has a 1 in the least significant bit.

**$X \& 1$**

5. Give the standard name for  $2^{35}$  bytes. For example,  $2^{10}$  is 1 kibi-byte.


**32 gibi-bytes**

6. Give the decimal number -3 in binary using two's complement (you may show your answer using any number of bits that is sufficient to store the number):

**101 with 3 bits, 1101 with 4 bits, 11101 with 5 bits ...**

# Computer Organization Midterm Sample

**Sada H. Shah**



## **Computer Organization Midterm Sample:**

The Top Books of the Year Computer Organization Midterm Sample The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year.

**The Must-Read :** Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed.

**Uncover the Best :** Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

**Discover the Magic :** Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting.

These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a masterful and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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