COAL Practice Questions

- 1. Explain the difference between Computer Organization and Computer Architecture.
- 2. List the five levels of abstraction in a computer system from 1 to 5 (Lecture 1 slide 22 to 26)...
- 3. What are the main functions of the Control Unit within a CPU?
- 4. Describe the purpose of the following Address Bus, Data Bus, Control Bus, and Memory (Lecture 1 slide 38 to 40)..
- 5. What are the advantages of using High-Level Languages for programming?
- 6. Explain how to convert a binary number to its decimal equivalent.
- 7. Describe the process of converting an unsigned decimal number to binary.
- 8. Show how the decimal number 422 is converted to hexadecimal.
- 9. Explain the rules of binary addition.
- 10. What is the significance of the highest bit in a signed integer?
- 11. Perform the binary addition of 8bits between 00111010 and 00111000, show the each steps..