

# Chapter 5: Processor fundamentals: Answers to coursebook questions and to Worksheet questions

Syllabus section covered: 4.1

## From the coursebook

### Extension question 5.01

- 1 Memory capacity, hard disk capacity and processor clock speed.  
Note that almost certainly the GB and TB will be based on the old-fashioned use of  $1K = 1024$ .
- 2 A clock speed of 1.7 GHz implies  $1 \div (1.7 \times 10^9)$  s as the time between clock signals. This is  $5.9 \times 10^{-10}$  s, which is the minimum time period that could separate successive activities.

### Extension question 5.02

There is no correct answer here. It is possible that your technical staff can provide some technical specification data.

## Exam-style Questions

- 1
    - a Accumulator (1)
    - b
      - i It stores the address of a memory location or an I/O component about to be used (for reading or writing). (1)
      - ii An address as a binary value. (1)
      - iii The program counter (PC). (1)
    - c
      - i It holds the instruction currently being executed. (1)
      - ii An instruction in a binary representation. (1)
      - iii Memory data register/memory buffer register (no marks given for acronyms). (1)
    - d 1 mark each for any of the following. (max 5)
      - MDR contains a binary code that has been retrieved from memory using the data bus, may be a datum, an address or an instruction, acts as a buffer to handle different speeds within the CPU and on the data bus.
      - MAR contains an address used to identify the memory location where data is to be stored or from where data is to be retrieved, the address is transferred to the MAR from the PC
- 1 mark for each of the following. (max 6)

# Chapter 5 Answers Pbworks

**JG Myers**



## **Chapter 5 Answers Pbworks:**

The Top Books of the Year Chapter 5 Answers Pbworks The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. Chapter 5 Answers Pbworks : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Chapter 5 Answers Pbworks : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding 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. Chapter 5 Answers Pbworks : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating 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 thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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### **Chapter 5 Answers Pworks :**

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