

ENS1161 Computer Fundamentals

Module 6 - Revision Questions

- 1. Describe the function of primary and secondary storage and the main differences between them.
- 2. List the sequence of steps for a primary memory read. Explain how delays in these steps contribute to the access time.
- 3. Describe the similarities and differences between ROM and RAM.
- 4. What is firmware? Describe at least 2 applications for firmware.
- 5. What are the differences between static RAM and dynamic RAM? Based on their relative strengths and weaknesses, describe suitable applications for each.
- 6. What is cache memory and why is it needed? Describe the difference between L1 and L2 cache memory. Illustrate this using a diagram.
- 7. Describe the principles of operation of a hard disk drive. Explain the factors that contribute to the access time for a hard disk
- 8. How data is organised in a HDD? Explain how data is distributed to minimise access time.
- 9. How does an SSD work? What are the advantages of an SSD over HDD?
- 10. How do tape drives store data and what are they primarily used for? Give reasons why they are used for that application.