Computer Science – Revision 2018

Paper 1 (Theory): Topics covered in the mock exam are: Chapters 1 to 5 of the textbook
1.1 Data representation
1.1.1 Binary systems
1.1.2 Hexadecimal
1.1.3 Data storage
1.2 Communication and Internet technologies
1.2.1 Data transmission
1.2.2 Security aspects
1.2.3 Internet principles of operation
1.3 Hardware and software
1.3.1 Logic gates
1.3.2 Computer architecture and the fetch-execute cycle
1.3.3 Input devices
1.3.4 Output devices
1.3.5 Memory, storage devices and media
1.3.6 Operating systems

Paper 2 (Programming): Topics covered in the mock exam are: Chapters 1-8 of the *Learning to Program in Python* textbook: https://www.amazon.co.uk/Learning-Program-Python-2017-Heathcote/dp/1910523119
1. Data types, operators and I-O
2. Strings and Numbers
3. Selection
4. Iteration
5. List and Tuples
6. Validating user input
7. Searching and Sorting
8. Functions

Resources for revision:
Paper 1: Theory
BBC Bitesize: https://www.bbc.com/education/subjects/z34k7ty
Paper 2: Programming
2018 IGCSE Computer Science Pre-Release: https://www.youtube.com/watch?v=ohlTmJ4O3DU
Others:
1. Problem Solving in Python: http://www.practicepython.org/
2. Spotting Errors in Code; https://youtu.be/iSYy84fD0n4
3. Flow Chart Tracing: https://youtu.be/OO-7KlfqEyg

Past papers for revision purposes:
https://drive.google.com/drive/folders/0BzumkDfi9230ZzRQOWNCQ2xza0U?tid=0BzumkDfi9230ZmNGVzRxMTRaenM