Revision
CS.111

Exam Overview

• Time Allowed: TWO hours
• Answer all questions in this exam.
• Calculators are NOT permitted.
• Answer Section A (Multiple choice questions) on the Teleform answer sheet provided.
• Answer Section B in the space provided in this booklet.
• 100 marks in total

Topics

• Exam Overview
• How to prepare for your exam

Exam Overview

Section A: Multiple choice questions - 30 questions, 1 mark each
Topics:
• Introduction / Hardware, components of a computer system
• Bits, bytes, digital information
• Software, licences, conventions
• Introduction to networking and the Internet
• Electronic Communication and the Internet
• Publishing online using tools - blogs, wikis
• The World Wide Web, search engines, trusting information
• Word processing, preferences, styles, references using RefWorks
• History of Computing
• Social, Legal Issues and Ethical Issues
• Digital Game Design
• Artificial intelligence
• Vector Graphics
Exam Overview

• Section B: Short answer questions
  5 questions, 70 marks in total
Topics:
• Programming in Python (10 marks)
• Spreadsheets (15 marks)
• HTML 5 & CSS (15 marks)
• Latex (15 marks)
• Databases (15 marks)

Exam Overview

• Section B: Short answer questions
  5 questions, 70 marks in total
Topics:
• Programming in Python (10 marks)
• Spreadsheets (15 marks)
• HTML 5 & CSS (15 marks)
• Latex (15 marks)
• Databases (15 marks)

Exam Preparation - tips

• Give yourself enough time to study
• Don’t leave it until the last minute.
• Organize your study space
  • Have you got enough light?
  • Is your chair comfortable?
• Are your computer games out of sight?
• Use flow charts and diagrams
  • Visual aids can be really helpful when revising
• At the start of a topic, challenge yourself to write down everything you already know about a topic
• Closer to the exam, condense your revision notes into one-page diagrams

Exam Preparation - tips

• Finding Out What Goes Into the Exam
• You can get a pretty good idea of what goes into the exam from
• looking at past papers
• Getting Comfortable with the Exam Experience
• Get a feeling for how the exam experience will be like by doing some past semesters’ exams.
• Explain your answers to others
  • That will help you to get it clear in your head, and also to highlight any areas where you need more work.
Exam Preparation - tips

• Organize study groups with friends
  • You may have questions that they have the answers to and vice versa.
  • this can be one of the most effective ways to challenge yourself.
• Take regular breaks
  • If you study better in the morning, start early before taking a break at lunchtime.
  • Remember Vitamin D is important for a healthy brain!
• Snack on 'brain food'
  • Keep your body and brain well-fuelled by choosing nutritious foods that have been proven to aid concentration and memory

Spreadsheets

• Use of constants vs. relative cell references
• Using simple formula like SUM or AVERAGE
• Conditional statements – IF
• VLOOKUP or HLOOKUP

Databases

• Understand the use of Primary and Foreign Keys
• Understand data types
• Write a simple SQL query

Programming in Python

• Get user input
• Use simple arithmetic and logical operators
• Provide user output
• Be able to understand Turtle Graphics code
Good luck!!