Part Ia: Structure of Papers 1 and 2 in 2022

Paper 1

Section A
Attempt 1 question
1 Foundations of Computer Science
2 Foundations of Computer Science

Section B
Attempt 1 question
3 Object-Oriented Programming
4 Object-Oriented Programming

Section C
Attempt 1 question
5 Introduction to Probability
6 Introduction to Probability

Section D
Attempt 1 question
7 Algorithms1
8 Algorithms1

Section E
Attempt 1 question
9 Algorithms2
10 Algorithms2

Attempt five questions on each paper.

Paper 2

Section A
Attempt 1 question
1 Digital Electronics
2 Digital Electronics

Section B
Attempt 1 question
3 Operating Systems
4 Operating Systems

Section C
Attempt 1 question
5 Software and Security Engineering
6 Software and Security Engineering

Section D
Attempt 2 questions
7 Discrete Mathematics
8 Discrete Mathematics
9 Discrete Mathematics
10 Discrete Mathematics
Part Ia: Structure of Paper 3 in 2022

Paper 3

Section A
Attempt 1 question
1 Databases
2 Databases

Section B
Attempt 1 question
3 Introduction to Graphics
4 Introduction to Graphics

Section C
Attempt 1 question
5 Interaction Design
6 Interaction Design

Section D
Attempt 2 questions
7 Machine Learning and Real-world Data
8 Machine Learning and Real-world Data
9 Machine Learning and Real-world Data

Attempt five questions on the paper.
Part Ib: Structure of Papers 4 to 6 in 2022

Paper 4

Section A
Attempt up to 4 questions from Section A
1 Compiler Construction
2 Compiler Construction
3 Further Java
4 Programming in C and C++
5 Programming in C and C++
6 Security
7 Security

Section B
Attempt at least 1 question from Section B
8 Semantics of Programming Languages
9 Semantics of Programming Languages

Paper 5

1 Computer Networking
2 Computer Networking
3 Computer Networking
4 Concurrent and Distributed Systems
5 Concurrent and Distributed Systems
6 Introduction to Computer Architecture
7 Introduction to Computer Architecture
8 Introduction to Computer Architecture

Paper 6

1 Artificial Intelligence
2 Artificial Intelligence
3 Complexity Theory
4 Complexity Theory
5 Computation Theory
6 Computation Theory
7 Data Science
8 Data Science
9 Logic and Proof
10 Logic and Proof

Attempt five questions on paper 4 including at least one from Section B. Attempt any five questions on each of papers 5 and 6.
Part Ib, Part II (50%): Structure of Paper 7 in 2022

Paper 7
1 Concepts in Programming Languages
2 Economics, Law and Ethics
3 Economics, Law and Ethics
4 Formal Models of Language
5 Formal Models of Language
6 Further Graphics
7 Further Graphics
8 Further HCI
9 Further HCI
10 Prolog

Attempt any five questions on the paper.
## Part II: Structure of Papers 8 and 9 in 2022

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*Attempt any five questions on each paper.*