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. Algorithms 1
8. Algorithms 1

Section E
Attempt 1 question
9. Algorithms 2
10. Algorithms 2

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

Section D
Attempt 2 questions
7. Discrete Mathematics
8. Discrete Mathematics
9. Discrete Mathematics
10. Discrete Mathematics

Attempt five questions on each paper.
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

Paper 8
1 Advanced Computer Architecture
2 Bioinformatics
3 Cryptography
4 Denotational Semantics
5 E-Commerce
6 Hoare Logic and Model Checking
7 Information Theory
8 Machine Learning and Bayesian Inference
9 Optimising Compilers
10 Principles of Communications
11 Quantum Computing
12 Randomised Algorithms
13 Types

Paper 9
1 Advanced Computer Architecture
2 Bioinformatics
3 Business Studies
4 Cryptography
5 Denotational Semantics
6 Hoare Logic and Model Checking
7 Information Theory
8 Machine Learning and Bayesian Inference
9 Optimising Compilers
10 Principles of Communications
11 Quantum Computing
12 Randomised Algorithms
13 Types

Attempt any five questions on each paper.