Part Ia: Structure of Papers 1 and 2 in 2019

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. Numerical Analysis
6. Numerical Analysis

Section D
Attempt 2 questions
7. Algorithms
8. Algorithms
9. Algorithms
10. Algorithms

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

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

Attempt five questions on each paper.
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 2019

Paper 4

Section A
Attempt up to 4 questions from Section A
1. Programming in C
2. Programming in C and C++
3. Compiler Construction
4. Compiler Construction
5. Further Java
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 Design
2. Computer Design
3. Computer Design
4. Computer Networking
5. Computer Networking
6. Computer Networking
7. Concurrent and Distributed Systems
8. Concurrent and Distributed Systems

Paper 6

1. Artificial Intelligence
2. Artificial Intelligence
3. Complexity Theory
4. Complexity Theory
5. Computation Theory
6. Computation Theory
7. Foundations of Data Science
8. Foundations of 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 (75%), Part II (50%): Structure of Paper 7 in 2019

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

Part II (50%) only
11. Digital Signal Processing

*Attempt any five questions on the paper.*
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<td>7. Hoare Logic and Model Checking</td>
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<td>8. Information Theory</td>
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*Attempt any five questions on each paper.*