

IGCSE Computer Science
Past-Paper Exercise Sheets — Question Index
21 subtopics • 147 questions • 1252 marks

1.1 Number systems

10 questions, 89 marks • short answer x5, calculation x3, multiple choice x2

Source	Q	Type	Marks
0478/12 N25	1	short answer	13
0478/12 N25	2	calculation	7
0478/12 M25	1	short answer	11
0478/12 N24	3	short answer	13
0478/11 J24	2	multiple choice	4
0478/11 J24	3	calculation	5
0478/12 J24	3	short answer	11
0478/12 M24	8	calculation	7
0478/12 M24	1	multiple choice	8
0478/12 N23	2	short answer	10

1.2 Text, sound and images

10 questions, 100 marks • calculation x5, short answer x3, long answer, multiple choice

Source	Q	Type	Marks
0478/11 N25	3	long answer	11
0478/13 N25	5	calculation	7
0478/11 J25	3	short answer	4
0478/12 J25	2	multiple choice	9
0478/13 J25	1	short answer	12
0478/12 M25	2	short answer	17
0478/11 N24	3	calculation	11
0478/11 N23	5	calculation	14
0478/12 N23	5	calculation	5
0478/12 J23	3	calculation	10

1.3 Data storage and compression

7 questions, 77 marks • short answer x3, calculation x3, multiple choice

Source	Q	Type	Marks
0478/11 N25	2	short answer	12
0478/11 J25	1	multiple choice	4
0478/13 N24	1	calculation	15
0478/13 N24	2	short answer	24
0478/13 J24	1	short answer	3
0478/11 J23	2	calculation	10
0478/12 M23	3	calculation	9

2.1 Types and methods of data transmission

8 questions, 70 marks • short answer x3, long answer x2, calculation x2, multiple choice

Source	Q	Type	Marks
0478/13 N25	3	short answer	14
0478/11 J24	4	long answer	7
0478/12 J24	2	multiple choice	7
0478/13 J24	7	short answer	18
0478/11 N23	4	short answer	7
0478/11 N23	7	calculation	4
0478/12 N23	6	long answer	4
0478/12 J23	4	calculation	9

2.2 Methods of error detection

4 questions, 47 marks • long answer x3, short answer

Source	Q	Type	Marks
0478/13 J25	7	long answer	10
0478/12 N24	5	long answer	12
0478/11 J24	9	long answer	20
0478/12 J24	6	short answer	5

2.3 Encryption

4 questions, 27 marks • short answer x3, long answer

Source	Q	Type	Marks
0478/11 J25	6	short answer	9
0478/11 J24	7	short answer	4
0478/12 M24	7	short answer	8
0478/12 N23	8	long answer	6

3.1 Computer architecture

12 questions, 108 marks • short answer x9, calculation x3

Source	Q	Type	Marks
0478/11 N25	6	short answer	9
0478/12 N25	4	short answer	11
0478/11 N24	5	short answer	11
0478/11 N24	6	short answer	10
0478/12 N24	6	short answer	6
0478/13 N24	3	short answer	6
0478/12 J24	5	short answer	8
0478/13 J24	8	short answer	13
0478/12 M24	2	short answer	13
0478/11 N23	1	calculation	10
0478/12 N23	3	calculation	6
0478/12 N23	4	calculation	5

3.2 Input and output devices

7 questions, 59 marks • short answer x5, multiple choice x2

Source	Q	Type	Marks
0478/12 J25	2	multiple choice	9
0478/11 N24	2	short answer	10
0478/12 N24	4	short answer	13
0478/12 N24	8	multiple choice	7
0478/11 J24	1	short answer	4
0478/13 J24	6	short answer	9
0478/11 J23	5	short answer	7

3.3 Data storage

8 questions, 57 marks • short answer x6, multiple choice, calculation

Source	Q	Type	Marks
0478/11 J25	7	short answer	11
0478/11 J24	5	short answer	11
0478/12 J24	9	short answer	8
0478/13 J24	4	short answer	6
0478/13 J24	5	multiple choice	2
0478/11 N23	8	calculation	8
0478/12 N23	13	short answer	7
0478/11 J23	3	short answer	4

3.4 Network hardware

3 questions, 24 marks • short answer, multiple choice, calculation

Source	Q	Type	Marks
0478/12 M25	5	short answer	14
0478/12 J24	7	multiple choice	4
0478/11 J23	6	calculation	6

4.1 Types of software and interrupts

10 questions, 65 marks • short answer x7, multiple choice, calculation, long answer

Source	Q	Type	Marks
0478/12 N25	5	short answer	10
0478/13 J25	4	short answer	6
0478/11 N24	7	multiple choice	4
0478/12 N24	1	short answer	3
0478/11 J24	6	short answer	4
0478/12 J24	4	short answer	5
0478/13 J24	9	short answer	9
0478/12 M24	3	short answer	10
0478/11 N23	9	calculation	10
0478/11 J23	4	long answer	4

4.2 Types of programming language, translators and integrated development environments

6 questions, 40 marks • short answer x4, long answer, calculation

Source	Q	Type	Marks
0478/12 N25	3	short answer	4
0478/12 M25	7	short answer	9
0478/11 N24	6	short answer	10
0478/13 N24	7	long answer	4
0478/11 J23	7	calculation	4
0478/12 J23	5	short answer	9

5.1 The internet and the world wide web

7 questions, 62 marks • short answer x6, long answer

Source	Q	Type	Marks
0478/12 N25	6	short answer	14
0478/12 N24	7	short answer	14
0478/13 N24	4	short answer	6
0478/13 N24	6	short answer	10
0478/12 J24	11	short answer	8
0478/12 M24	4	long answer	5
0478/12 J23	8	short answer	5

5.2 Digital currency

3 questions, 11 marks • short answer x2, long answer

Source	Q	Type	Marks
0478/11 N24	8	long answer	4
0478/12 M24	5	short answer	4
0478/12 N23	12	short answer	3

5.3 Cyber security

9 questions, 81 marks • calculation x4, long answer x3, short answer x2

Source	Q	Type	Marks
0478/11 N25	4	short answer	16
0478/13 N25	4	long answer	12
0478/12 J24	8	long answer	6
0478/11 N23	6	calculation	4
0478/12 N23	1	short answer	3
0478/12 N23	8	long answer	6
0478/11 J23	8	calculation	10
0478/11 J23	10	calculation	14
0478/12 M23	1	calculation	10

6.1 Automated systems

6 questions, 73 marks • short answer x3, multiple choice, long answer, calculation

Source	Q	Type	Marks
0478/13 N25	1	multiple choice	16
0478/13 J25	6	short answer	15
0478/13 N24	5	short answer	10
0478/12 M24	6	long answer	20
0478/12 N23	11	calculation	5
0478/11 J23	5	short answer	7

6.2 Robotics

5 questions, 59 marks • short answer x2, calculation x2, long answer

Source	Q	Type	Marks
0478/11 N25	5	long answer	11
0478/11 J25	8	short answer	7
0478/11 J24	8	short answer	16
0478/11 J23	9	calculation	5
0478/12 M23	6	calculation	20

6.3 Artificial intelligence

6 questions, 54 marks • short answer x4, long answer, calculation

Source	Q	Type	Marks
0478/12 N25	7	short answer	16
0478/13 N25	6	long answer	12
0478/12 M25	6	short answer	6
0478/11 N24	9	short answer	8
0478/12 N23	10	calculation	7
0478/12 J23	9	short answer	5

8.1 Programming concepts

12 questions, 40 marks • multiple choice x4, short answer x4, long answer x2, calculation x2

Source	Q	Type	Marks
0478/21 N25	3	multiple choice	1
0478/22 N25	1	multiple choice	1
0478/23 N25	3	multiple choice	1
0478/21 J25	5	short answer	4
0478/22 N24	2	multiple choice	1
0478/21 J24	3	short answer	4
0478/22 J24	5	short answer	6
0478/23 J24	3	short answer	4
0478/23 J24	7	long answer	7
0478/22 M24	6	long answer	4
0478/22 N23	5	calculation	3
0478/22 N23	8	calculation	4

8.2 Arrays

8 questions, 104 marks • long answer x5, short answer x3

Source	Q	Type	Marks
0478/21 N25	11	long answer	15
0478/22 N25	2	short answer	15
0478/22 N25	5	short answer	13
0478/21 J25	3	long answer	4
0478/23 J25	3	short answer	12
0478/22 N24	12	long answer	15
0478/21 J24	10	long answer	15
0478/22 J24	11	long answer	15

8.3 File handling

2 questions, 5 marks • long answer, multiple choice

Source	Q	Type	Marks
0478/21 N25	9	long answer	4
0478/22 M25	2	multiple choice	1