

A level Further Mathematics – Decision Mathematics 1 – Practice Papers 1-5

Practice Paper 1

Question	Taken from	Topic	Number of marks
1	IAL D1 Jun 17	Q1 First-fit, Quick Sort	11
2	GCE D2 Jun 15	Q1 Simplex algorithm	7
3	GCE D2 Jun 15	Q3 Travelling Salesperson and Prim's algorithm	12
4	IAL D1 Jun 18	Q5 Critical Path Analysis	14
5	GCE D1 Jun 18	Q7 Linear Programming	17
6	GCE D1 Jun 17	Q4 Dijkstra and Route Inspection	14 (reduce part a from 6 to 5 marks)
Total			75

Practice Paper 2

Question	Taken from	Topic	Number of marks
1	GCE D1 Jun 16	Q2 Critical Path Analysis	5
2	GCE D1 Jun 14	Q3 Route Inspection algorithm	10
3	IAL D1 Jan 17	Q6 Dijkstra's algorithm	9
4	GCE D1 Jun 15	Q5 Kruskal and Prim's algorithm	10
5	GCE D1 Jun 14	Q6 First fit and Quick Sort	13
6	IAL D1 Jan 17	Q7 Critical Path Analysis	14
7	GCE D1 Jun 16	Q8 Linear Programming	14
Total			75

Practice Paper 3

Question	Taken from	Topic	Number of marks
1	GCE D2 Jun 17	Q1 Travelling Salesperson	7
2	GCE D1 Jun 14	Q5 Dijkstra's algorithm	9
3	GCE D1 Jun 16	Q5 Applying a given algorithm	7
4	IAL D1 Jan 19	Q4 First-fit and Quick Sort	14
5	IAL D1 Jun 18	Q3 Graph theory and Prim's algorithm	8
6	GCE D1 Jun 15	Q7 Critical Path Analysis	13
7	GCE D2 Jun 18	Q5 Simplex Algorithm	17
Total			75

Practice Paper 4

Question	Taken from	Topic	Number of marks	
1	IAL D1 Jan 18	Q6	First-fit and Quick Sort	13
2	GCE D2 Jun 16	Q1	Travelling Salesperson	10
3	GCE D1 Jun 14	Q7	Critical Path Analysis	14
4	GCE D2 Jun 17	Q5	Simplex Algorithm	13
5	GCE D1 Jun 15	Q6	Linear Programming	13
6	IAL D1 Jan 19	Q6	Prim's algorithm and Route Inspection	12
			Total	75

Practice Paper 5

Question	Taken from	Topic	Number of marks	
1	GCE D2 Jun 14	Q2	Travelling Salesperson	10
2	IAL D1 Jan 18	Q2	Critical Path Analysis	10
3	GCE D1 Jun 16	Q4	Dijkstra and Prim's algorithm	12
4	GCE D1 Jun 15	Q4	Route Inspection	12
5	GCE D2 Jun 14	Q3	Simplex Algorithm	12
6	IAL D1 Jan 17	Q4	First-fit and Bubble Sort	11
7	GCE D1 Jun 14	Q8	Linear Programming	8
			Total	75