



Candidate Name

Centre Number

Candidate  
Number

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**OXFORD CAMBRIDGE AND RSA EXAMINATIONS**

**Advanced Subsidiary General Certificate of Education  
Advanced General Certificate of Education**

**MEI STRUCTURED MATHEMATICS**

**4771**

Decision Mathematics 1

INSERT

Friday

**14 JANUARY 2005**

Morning

1 hour 30 minutes

**INSTRUCTIONS TO CANDIDATES**

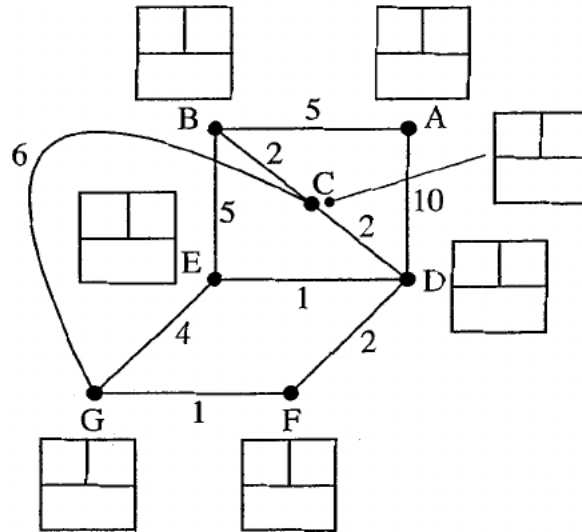
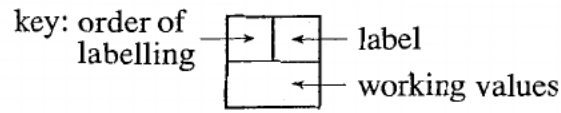
- This insert should be used in Questions **2**, **4** and **5** parts **(iii)** and **(iv)**.
- Write your name, centre number and candidate number in the spaces provided at the top of this page and attach it to your answer booklet.

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**This insert consists of 4 printed pages.**

Insert for question 2

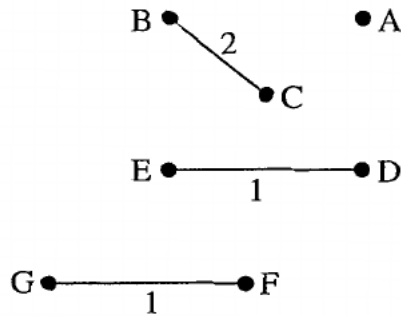
(i)



Shortest route: \_\_\_\_\_

Weight: \_\_\_\_\_

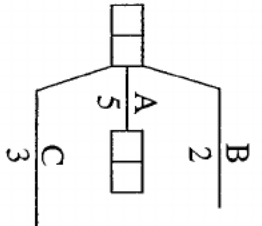
(ii)



Total weight of minimum connector: \_\_\_\_\_

Insert for question 4

(i) and (ii)



3

Critical activities: \_\_\_\_\_

Time to complete perm: \_\_\_\_\_

(iii) Total float for activity G: \_\_\_\_\_

(iv)

stylist	trainee	10	20	30	40	50	60	70	80

**Spare copy**

stylist	trainee	10	20	30	40	50	60	70	80

(v) Activity better started at latest start time: \_\_\_\_\_

Insert for question 5 (iii) and (iv)

Car no.	Arrival time at 1 <sup>st</sup> lights	Departure time from 1 <sup>st</sup> lights	Arrival time at 2 <sup>nd</sup> lights	Departure time from 2 <sup>nd</sup> lights
1	25			
2	27			
3	29			
4	44			
5	46			
6	48			
7	53			
8	78			
9	80			
10	85			

Mean delay at first set of lights: \_\_\_\_\_

Mean delay at second set of lights: \_\_\_\_\_

Spare copy

Car no.	Arrival time at 1 <sup>st</sup> lights	Departure time from 1 <sup>st</sup> lights	Arrival time at 2 <sup>nd</sup> lights	Departure time from 2 <sup>nd</sup> lights
1	25			
2	27			
3	29			
4	44			
5	46			
6	48			
7	53			
8	78			
9	80			
10	85			