



Oxford Cambridge and RSA

Tuesday 18 June 2019 – Morning

A Level Further Mathematics B (MEI)

Y433/01 Modelling with Algorithms

Printed Answer Booklet

Time allowed: 1 hour 15 minutes



You must have:

- Question Paper Y433/01 (inserted)
- Formulae Further Mathematics B (MEI)

You may use:

- a scientific or graphical calculator



Please write clearly in black ink. **Do not write in the barcodes.**

Centre number

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Candidate number

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First name(s)

Last name

INSTRUCTIONS

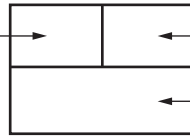
- The Question Paper will be found inside the Printed Answer Booklet.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Answer **all** the questions.
- **Write your answer to each question in the space provided in the Printed Answer Booklet.** Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- You are permitted to use a scientific or graphical calculator in this paper.
- Final answers should be given to a degree of accuracy appropriate to the context.

INFORMATION

- **You are reminded of the need for clear presentation in your answers.**
- The Printed Answer Booklet consists of **12** pages. The Question Paper consists of **12** pages.

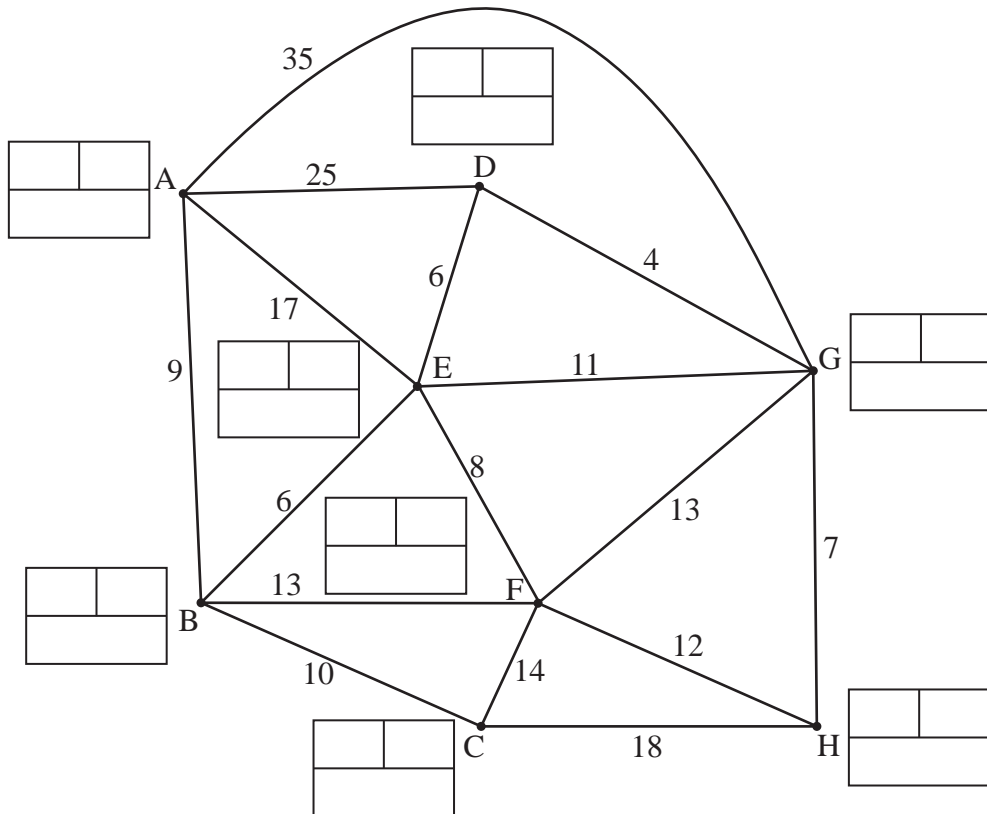
1(a) Key:

Order of becoming permanent



Permanent label
Temporary labels (working values)

Do not cross out your temporary labels.



1(b)	35	25	18	17	14	13	13	12	11	10	9	8	7	6	6	4

1(c)	

2(a)
and (b)

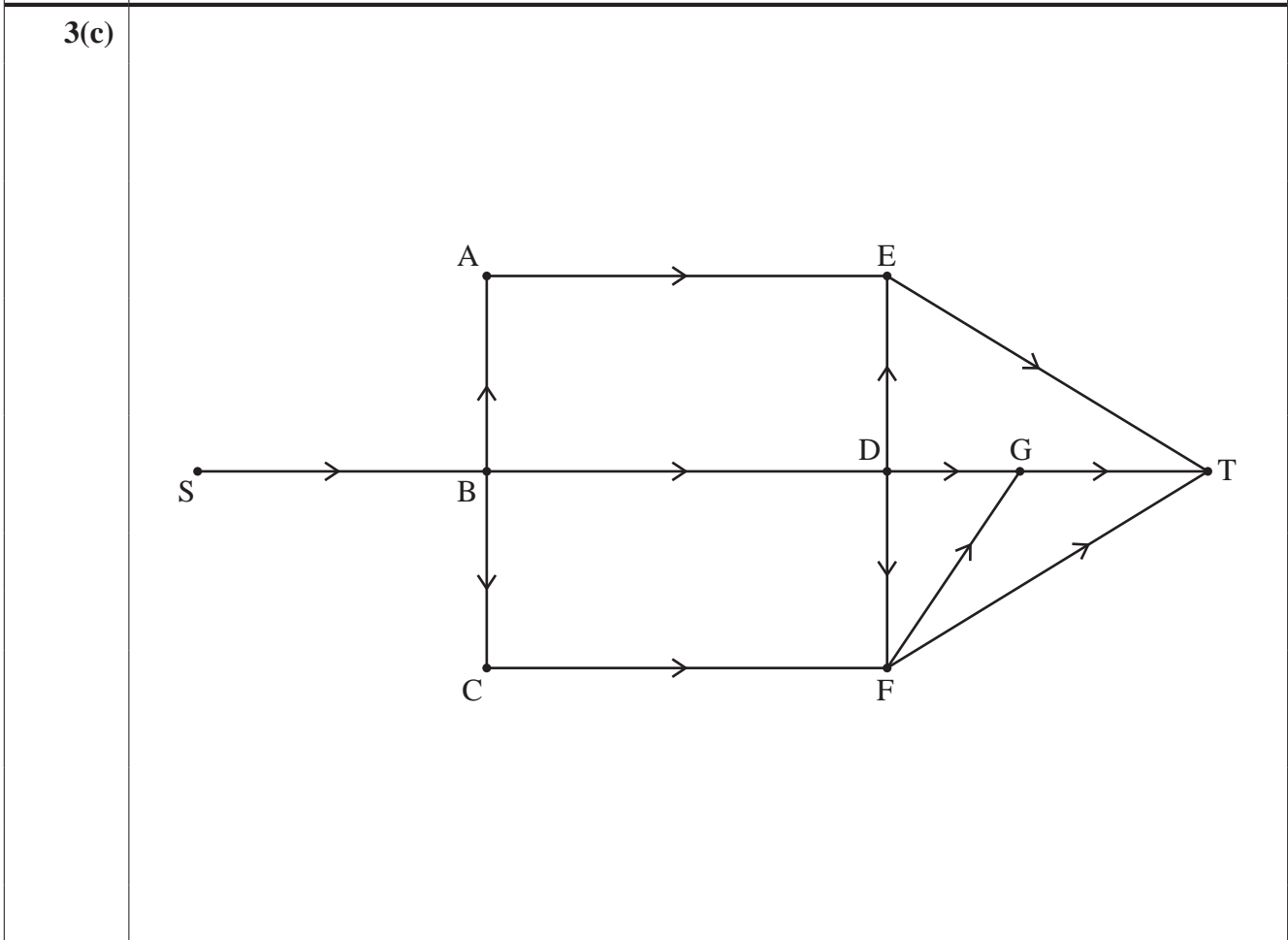
2(c)	Activity	Number of workers
	A	
	B	
	C	
	D	
	E	
	F	
	G	
	H	
	I	

2(d)	

3(a)(i)	

3(a)(ii)	

3(b)	



3(d)

3(e)

4(a)(i)	
4(a)(ii)	
4(b)(i)	
4(b)(ii)	
4(c)	
4(d)(i)	

4(d)(ii)	

4(e)	

5(a)	
5(b)	
5(c)	

5(d)

<i>P</i>	<i>x</i>	<i>y</i>	<i>z</i>	<i>s</i> ₁	<i>s</i> ₂	<i>s</i> ₃	<i>s</i> ₄	RHS

<i>P</i>	<i>x</i>	<i>y</i>	<i>z</i>	<i>s</i> ₁	<i>s</i> ₂	<i>s</i> ₃	<i>s</i> ₄	RHS

5(e)(i)	
	5(e)(ii)