



Oxford Cambridge and RSA

Friday 26 May 2023 – Afternoon

AS Level Further Mathematics B (MEI)

Y413/01 Modelling with Algorithms

Printed Answer Booklet

Time allowed: 1 hour 15 minutes



You must have:

- Question Paper Y413/01 (inside this document)
- the Formulae Booklet for Further Mathematics B (MEI)
- 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

- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the space provided in the **Printed Answer Booklet**. If you need extra space use the lined pages at the end of the Printed Answer Booklet. The question numbers must be clearly shown.
- Answer **all** the questions.
- Where appropriate, your answer should be supported with working. Marks might be given for using a correct method, even if your answer is wrong.
- Give your final answers to a degree of accuracy that is appropriate to the context.

INFORMATION

- This document has **16** pages.

ADVICE

- Read each question carefully before you start your answer.

2(a)
2(b)(i)

Key:
Order of labelling →
Working values (do not cross out) →

← Label

A •

• B

• E

• F

• H

• D

• G

Length of quickest route from A to H =

2(b)(ii)

2(c)

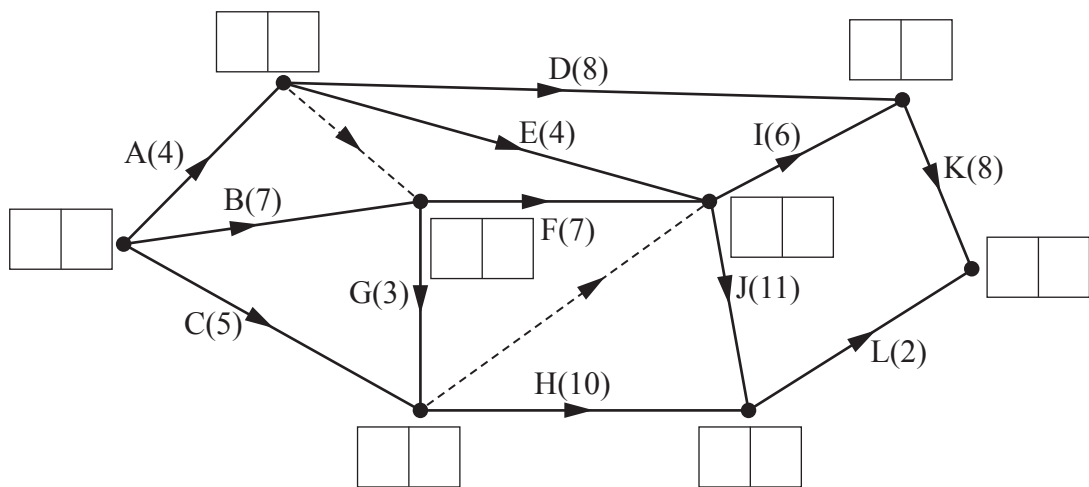
3(a)	17	15	18	9	23	20	14	12	25	11
3(b)(i)										
3(b)(ii)										

3(c)	
3(d)(i)	
3(d)(ii)	

4(a)

Activity	Immediate Predecessor(s)
A	
B	
C	
D	
E	
F	
G	
H	
I	
J	
K	
L	

4(b)

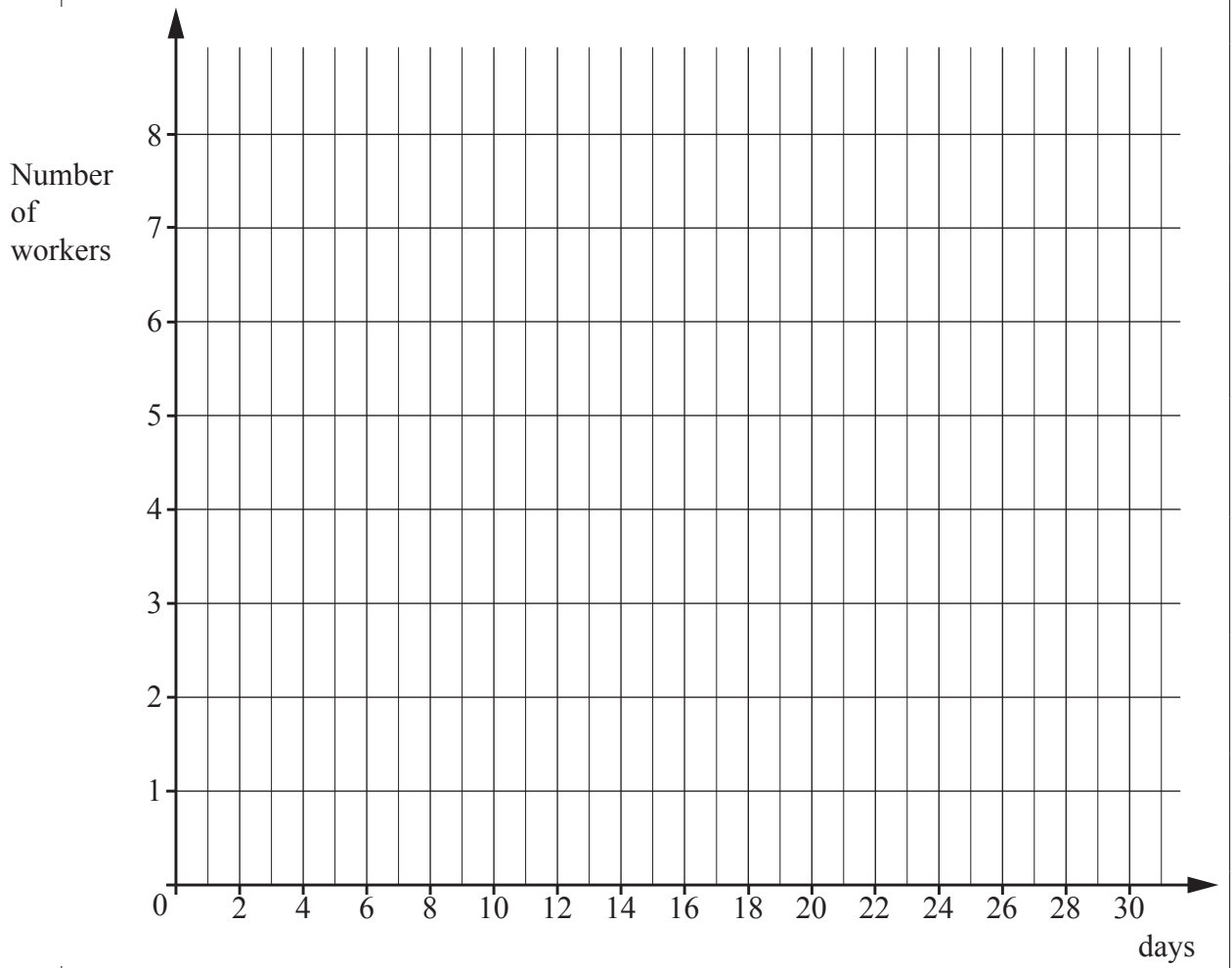


Minimum completion time =

Critical activities:

4(c)

4(d)(i)



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There is a spare copy of this graph on page 12

4(d)(ii)

4(d)(i) Spare copy of graph for Q4(d)(i)

