

Write your name here

Surname

Other names

**Pearson Edexcel**  
**International**  
**Advanced Level**

Centre Number

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Candidate Number

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# Decision Mathematics D1

## Advanced/Advanced Subsidiary

Thursday 12 June 2014 – Afternoon  
**Time: 1 hour 30 minutes**

Paper Reference

**WDM01/01****Answer Book**

Do not return the question paper with the answer book.

Total Marks

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Turn over ►

P44516A

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5/5/1/1


**PEARSON**

1.

Lined area for writing





2. (a)

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(b) & (c)

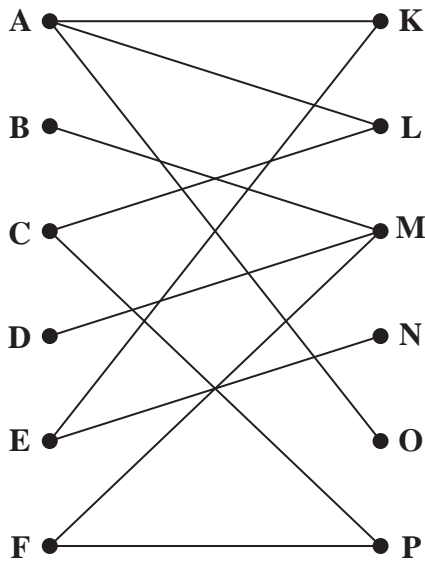


Figure 1

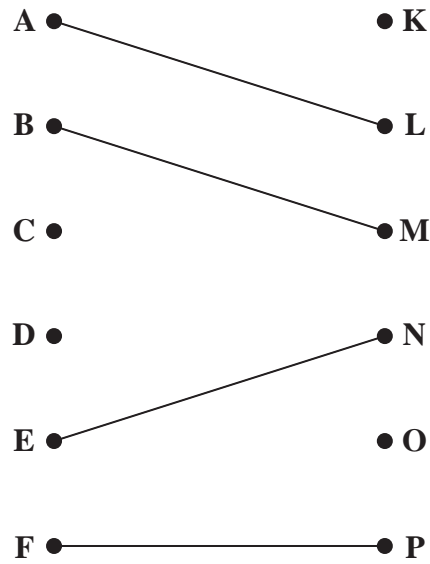


Figure 2

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**Question 2 continued**

**A ●**

**● K**

**A ●**

**● K**

**B ●**

**● L**

**B ●**

**● L**

**C ●**

**● M**

**C ●**

**● M**

**D ●**

**● N**

**D ●**

**● N**

**E ●**

**● O**

**E ●**

**● O**

**F ●**

**● P**

**F ●**

**● P**

Lined writing area for student response.

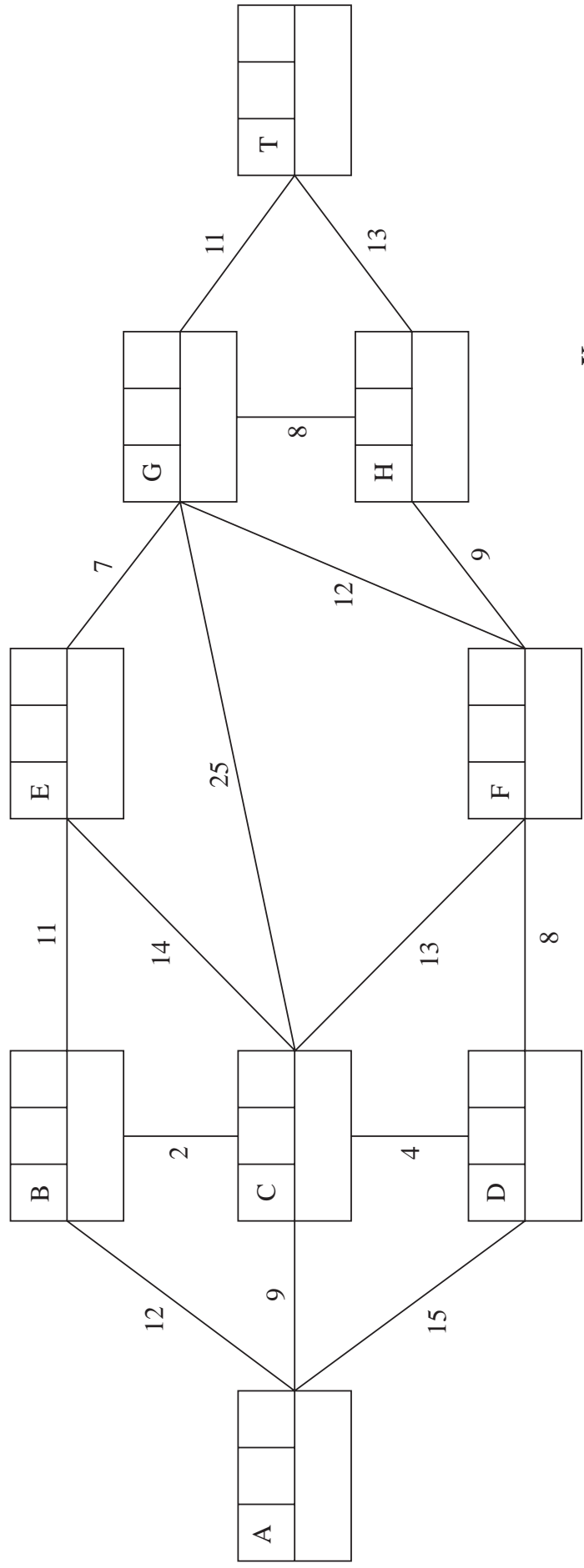
**(Total 9 marks)**

**Q2**



P 4 4 5 1 6 A 0 5 1 6

3. (a)



**Key:**

Vertex	Order of labelling	Final value
Working values		

Quickest route: \_\_\_\_\_

Time taken: \_\_\_\_\_

Leave blank



**Question 3 continued**

(b)

Vertical lines for writing answers.

Route:

Time:

(c)

Leave blank

Q3

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**(Total 10 marks)**















Leave  
blank

6.

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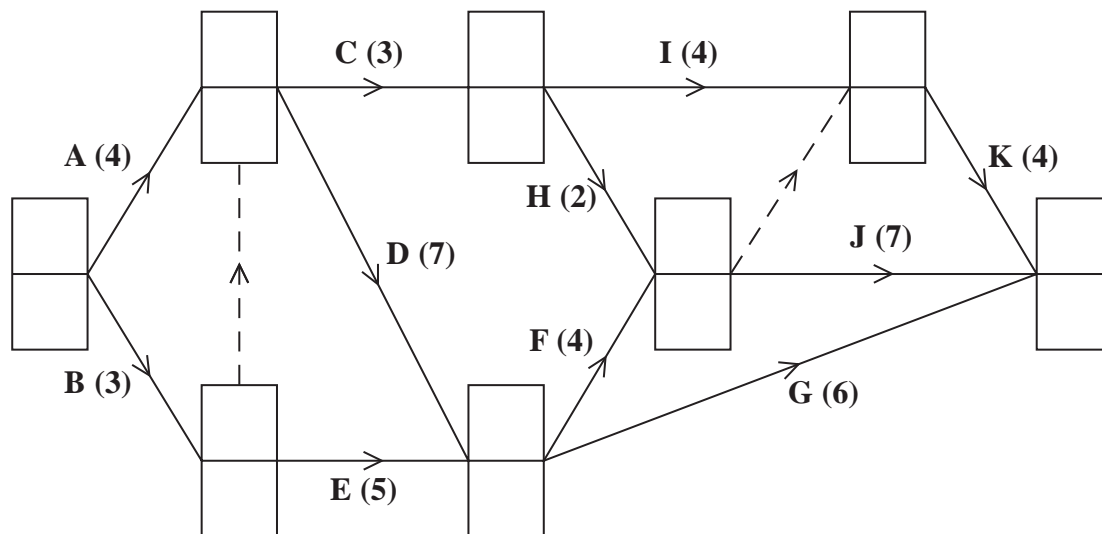
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(Total 7 marks)

Q6



7. (a)



**Diagram 1**

(b) Critical Path \_\_\_\_\_

Length \_\_\_\_\_

(c) ANSWER THIS ON DIAGRAM 2 (LARGE GRID) ON OPPOSITE PAGE.

(d) Time 7.5 \_\_\_\_\_

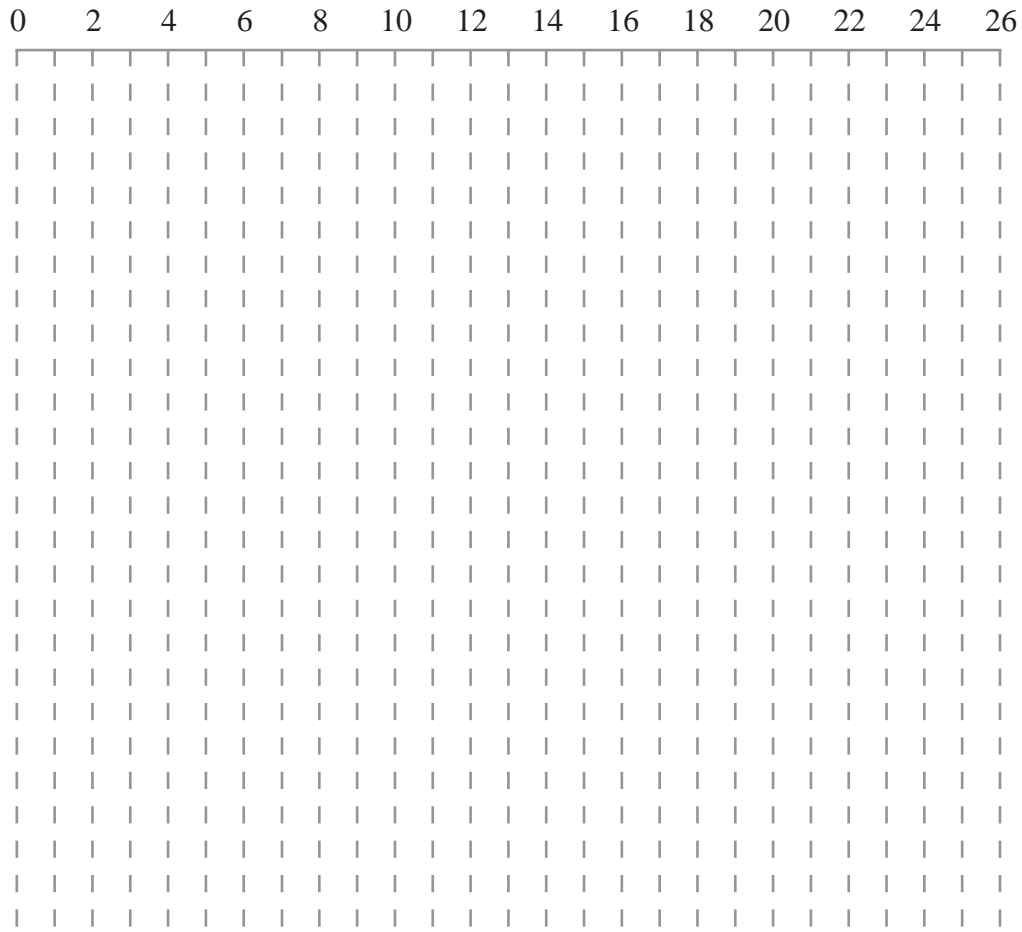
Time 16.5 \_\_\_\_\_

(e) ANSWER THIS ON DIAGRAM 3 (SMALL GRID) ON OPPOSITE PAGE.



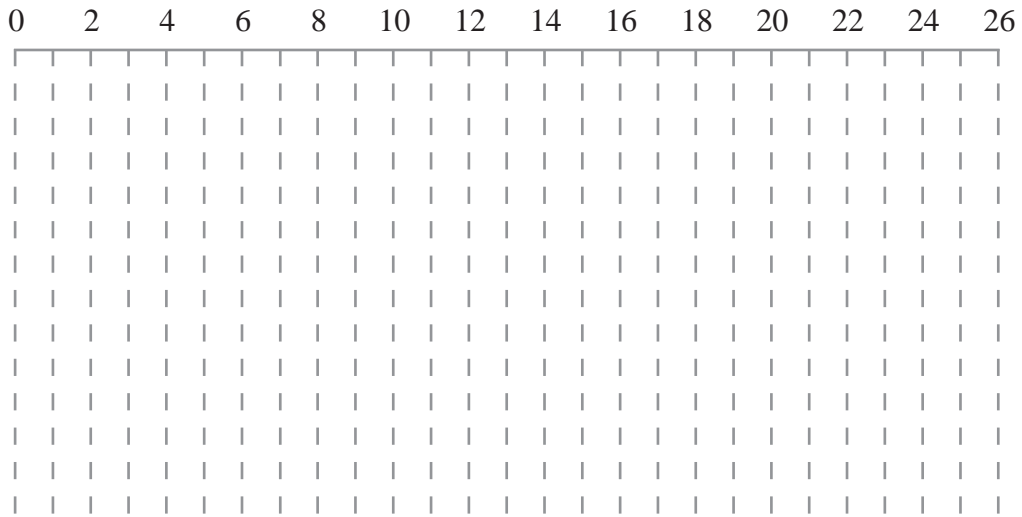
**Question 7 continued**

(c)



**Diagram 2**

(e)



**Diagram 3**

**(Total 14 marks)**

**Q7**

**TOTAL FOR PAPER: 75 MARKS**

**END**

