

Paper Reference(s)

**6689**

**Edexcel GCE**

**Decision Mathematics D1**

**Advanced/Advanced Subsidiary**

**Wednesday 18 January 2006 – Afternoon**

**Answer Booklet**

1. (a) .....

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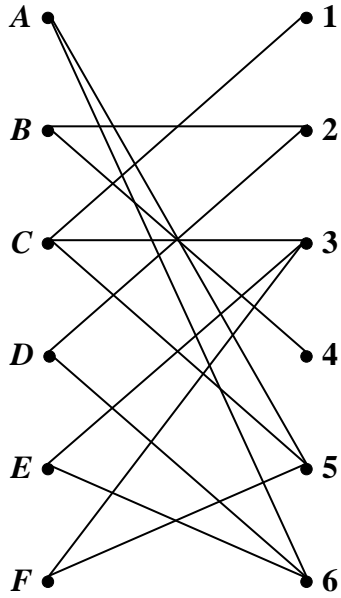
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**Figure 1**



(b) .....

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2.

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>
<i>A</i>	–	48	117	92	–	–	–
<i>B</i>	48	–	–	–	–	63	55
<i>C</i>	117	–	–	28	–	–	85
<i>D</i>	92	–	28	–	58	132	–
<i>E</i>	–	–	–	58	–	124	–
<i>F</i>	–	63	–	132	124	–	–
<i>G</i>	–	55	85	–	–	–	–

(a) .....

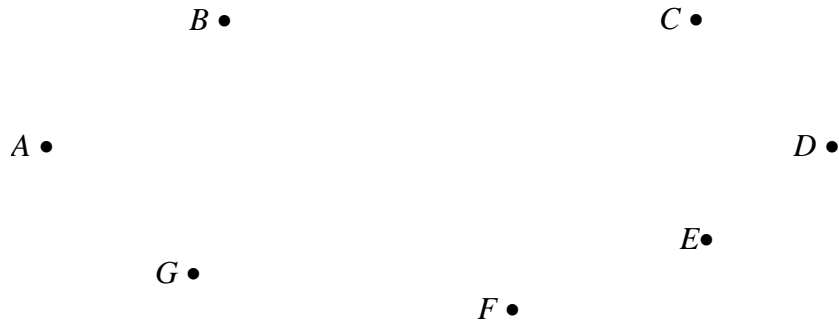
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**Diagram 1**





3. You may not need to use all the rows in this table.

(a)

<i>A</i>	<i>B</i>	<i>n</i>	<i>C</i>	<i>D</i>	<i>E</i>

(b) Output: .....

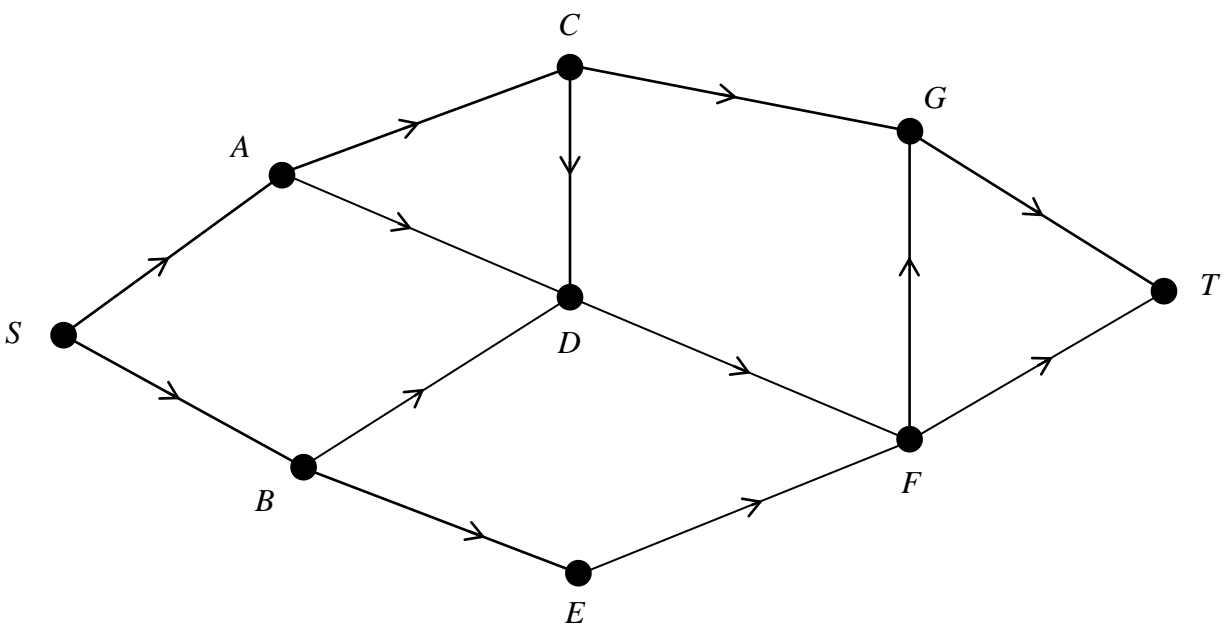
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4. (a) .....  
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(b)  $C_1$  .....  
 $C_2$  .....

(c)

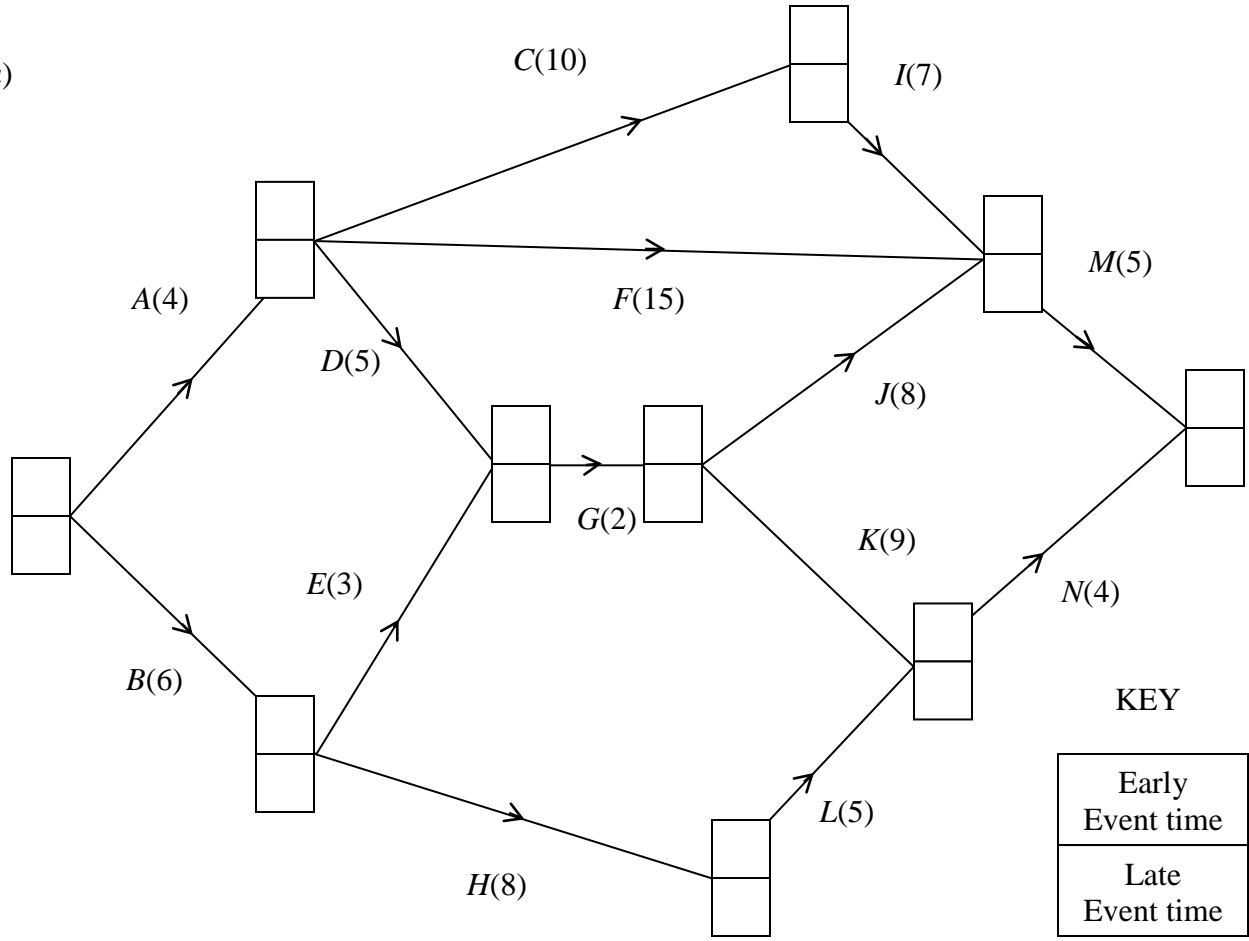
**Diagram 1**







5. (a)

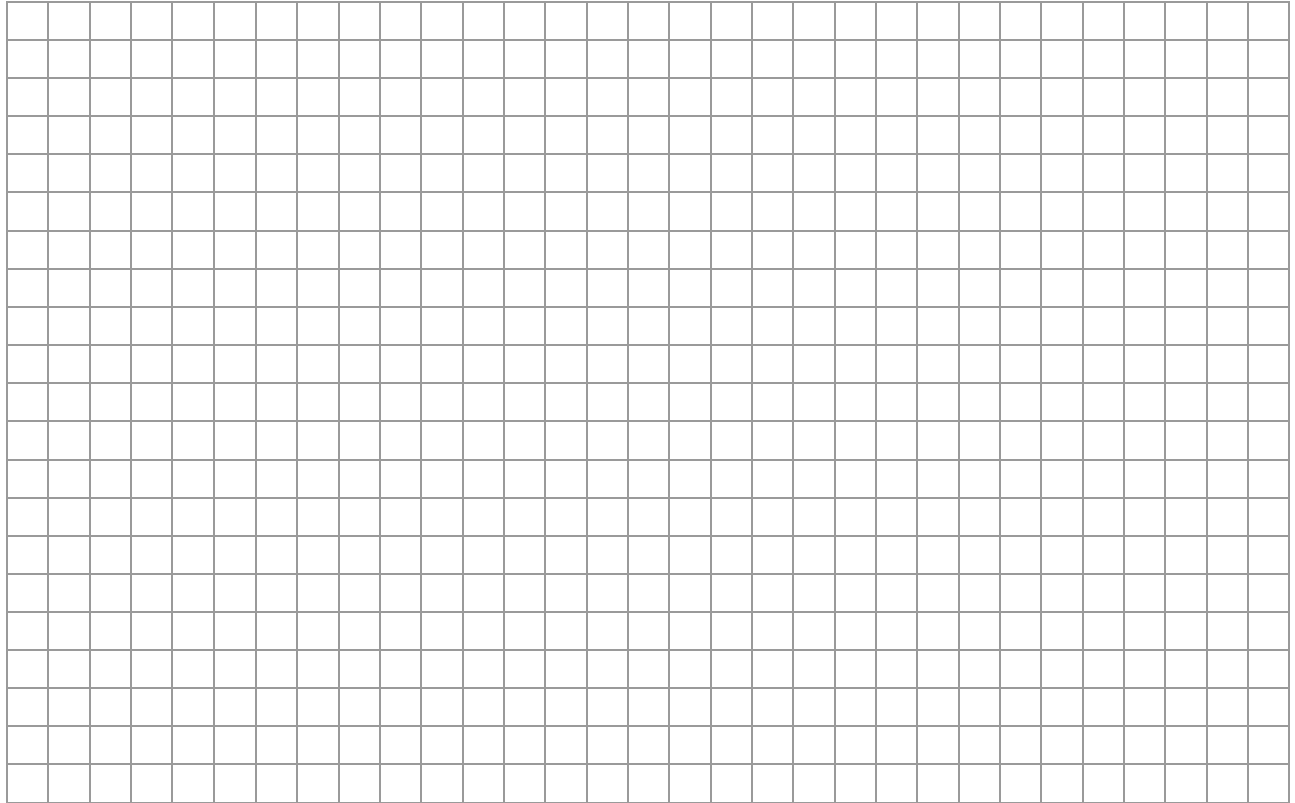


(b) Critical activities.....

Length of critical path .....

(c)

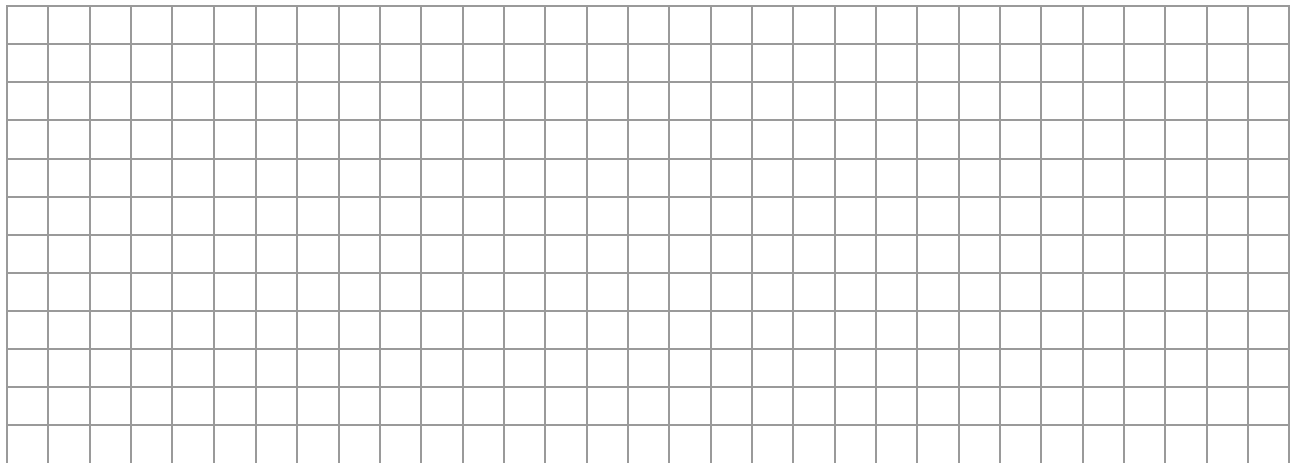
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30



(d) .....  
.....  
.....  
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(e)

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30



6. (a) .....

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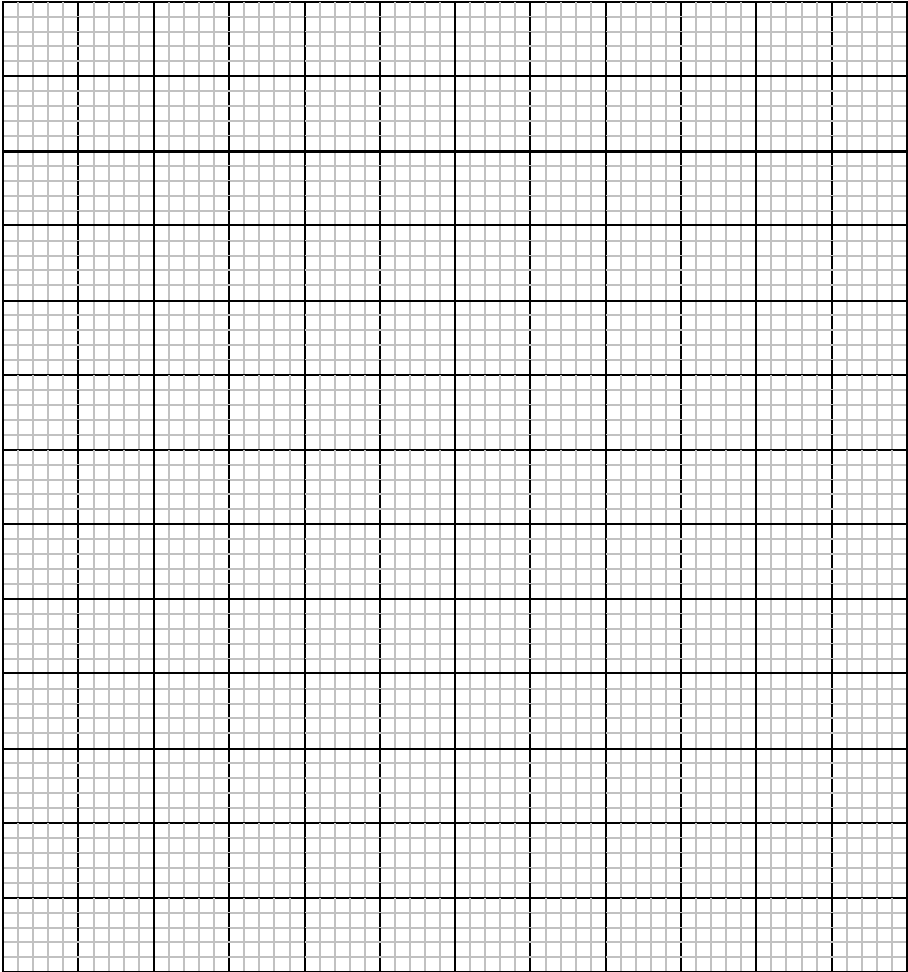
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(b)



(c) .....

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(d) .....

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(e) .....

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