OCR
RECOGNISING ACHIEVEMENT

ADVANCED SUBSIDIARY GCE UNIT **4771/01**

MATHEMATICS (MEI)

Decision Mathematics 1

ANSWER BOOK

TUESDAY 23 JANUARY 2007

Afternoon
Time: 1 hour 30 minutes

Candidate Name										
Centre Number						Candidate Number				

INSTRUCTIONS TO CANDIDATES

- Write your name, centre number and candidate number in the spaces provided.
- Write your answers in the spaces provided on the answer book. If extra space is required use the blank pages making sure that you label your work clearly.

This answer book consists of **8** printed pages and **4** blank pages.

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1 (i)

(ii)

(iii)

(iv)

(v)

2 (i)

Original list	109	32	3	523	58	Comparisons	Swaps

(ii)

Maximum number of swaps = …….

(iii)

3 (i)

(ii) Run 1 random numbers 2 2 1 7 6 4 3 4 0 9 6 1 5 8 8

Run 1 outcome ……

Run 2 random numbers 6 2 3 8 7 4 6 1 0 9 0 6 4 2 5

Run 2 outcome ……

Run 3 random numbers 5 6 4 9 0 1 8 3 5 4 7 2 1 0 0

Run 3 outcome ……

Run 4 random numbers 5 3 6 1 0 8 4 7 9 8 2 2 2 7 4

Run 4 outcome ……

Run 5 random numbers 1 2 1 6 5 0 9 7 7 6 9 8 4 3 3

Run 5 outcome ……

(iii)

(iv)

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4 (i) & (ii)

Project duration: …….....

Critical activities: ……

(iii)

(iv)

5 **(i)**

(ii) (See opposite for graph paper.)

(iii)

(iv)

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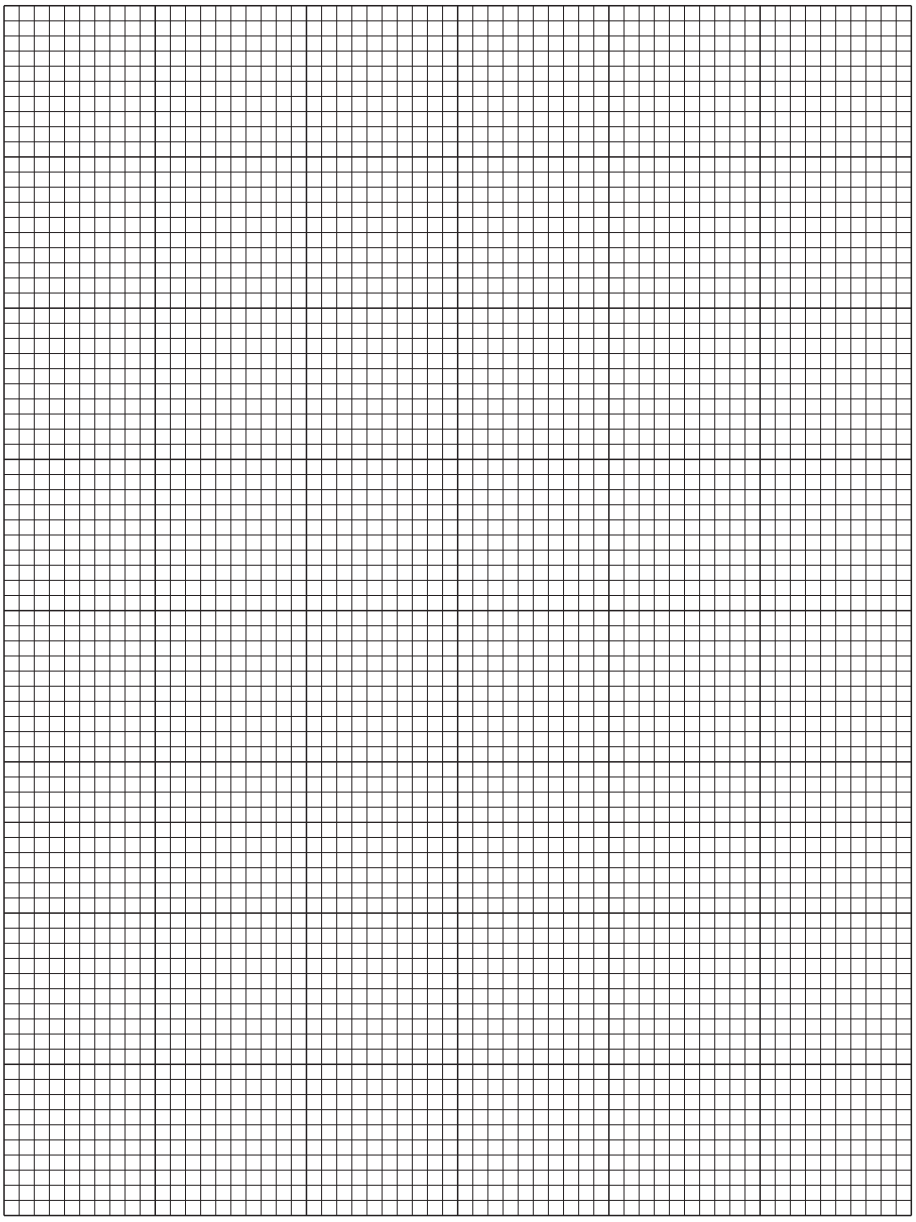
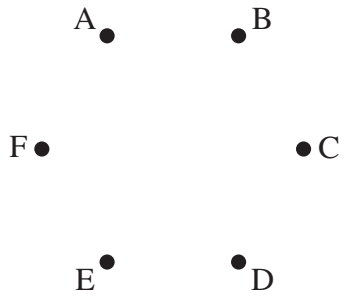
5 (ii)



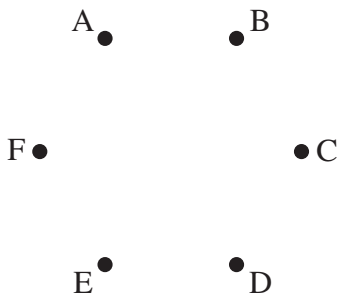
6 **(i)** Order of arc selection:



Total length of connector = ……..

(ii)

	A	B	C	D	E	F
A						
B						
C						
D						
E						
F						



Total length of connector = ……..

(iii)