ADVANCED SUBSIDIARY GCE UN MATHEMATICS (MEI) Decision Mathematics 1	ІТ	4771	/01
ANSWER BOOK MONDAY 18 JUNE 2007	ANSWER BOOK MONDAY 18 JUNE 2007 Morning Time: 1 hour 30 minutes		
Candidate Name			
Centre	Candidate		
Number NSTRUCTIONS TO CANDIDATES Write your name, centre number and candidate numb Write your answers in the spaces provided on the approximation of the spaces provided on the spaces	Number	ovided above.	
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HN/5

[Turn over

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1 (i)

(ii)

(iii)

(iv)

2

Rucksack 2:

Comment:

(ii) Order:

Rucksack 1:

Rucksack 2:

(iii) Rucksack 1:

Rucksack 2:

Explanation:

3



Maximum value of 2x + 3y:

This occurs where x =

and where y =

Activity		Duration (minutes)	Immediate predecessors
А	Rig foresail	3	
В	Lower sprayhood	2	
С	Start engine	3	
D	Pump out bilges	4	
Е	Rig mainsail	1	
F	Cast off mooring ropes	1	
G	Motor out of harbour	10	
Η	Raise foresail	3	
Ι	Raise mainsail	4	
J	Stop engine and start sailing	1	

(ii)



Project duration:

Critical activities:

- (iii) Activities whilst motoring:
- (iv) Minimum time:

Schedule for Colin:

(v) Minimum time:

Schedule for Colin:

Schedule for crew member:

6

5 (i) & (ii)



Route:

Weight:

(iii) Route:

Weight:

Application:

(iv) Working value update

Next vertex to label

6 (i) (A)

7

(B)

(*C*)

(ii)

(iii)

(iv)

(v)

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8

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