

**ADVANCED GCE UNIT
MATHEMATICS**

4737/01

Decision Mathematics 2 INSERT for Questions 4 and 5
WEDNESDAY 20 JUNE 2007

Afternoon

Time: 1 hour 30 minutes

Candidate
Name

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Centre
Number

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Candidate
Number

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INSTRUCTIONS TO CANDIDATES

- Write your name, centre number and candidate number in the boxes above.
- This insert should be used to answer Questions **4** and **5**.
- Write your answers to Questions **4** and **5** in the spaces provided in this insert, and attach it to your answer booklet.

This document consists of **3** printed pages and **1** blank page.

4 (i)

Stage	State	Action	Working	Minimax
1	0	0	4	4
	1	0	3	3
	2	0	2	2
2	0	0	$\max(6, 4) = 6$	3
		1	$\max(2, 3) = 3$	
		2	$\max(3, 2) = 3$	
	1	0	$\max(2, 4) =$	
		1	$\max(4, 3) =$	
		2	$\max(5, 2) =$	
	2	0	$\max(2,$	
		1	$\max(3,$	
		2	$\max(4,$	
3	0	0	$\max(5,$	
		1	$\max(5,$	
		2	$\max(2,$	

(ii) Minimax value =

Route =

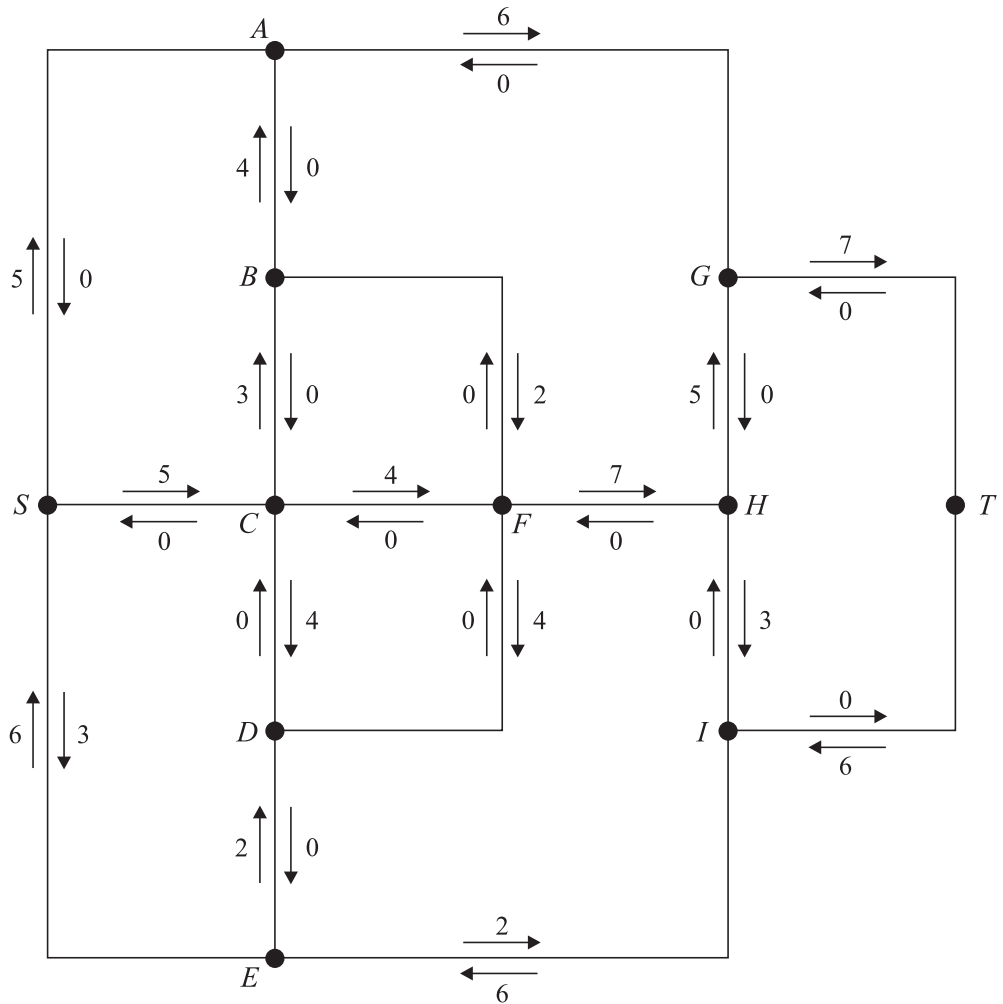
(iii)

(2; 0) ● (1; 0) ●

(3; 0) ● (2; 1) ● (1; 1) ● (0; 0) ●

(2; 2) ● (1; 2) ●

- 5 (i)
- (ii)
- (iii)
- (iv)
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