

**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

Centre  
Number

--	--	--	--	--

Candidate  
Number

--	--	--	--

**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 = .....

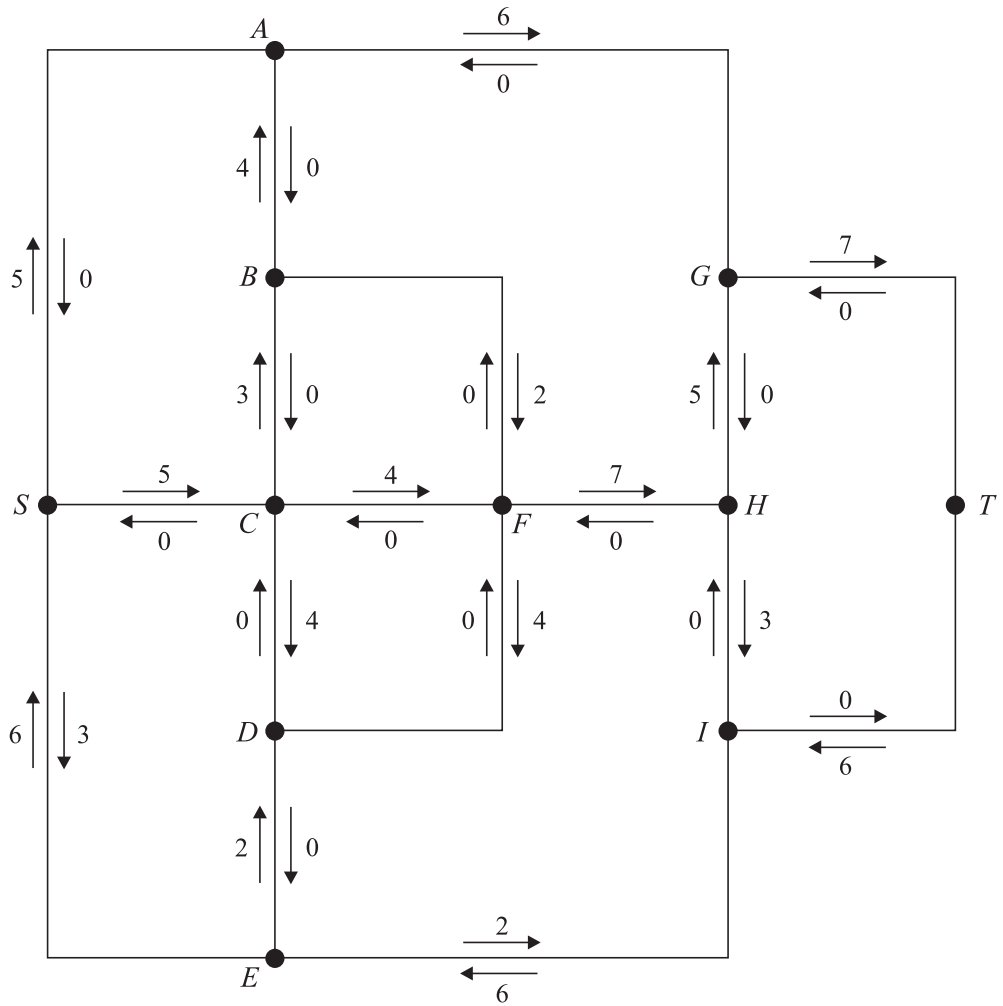
(iii)

(2; 0) ● (1; 0) ●

(3; 0) ● (2; 1) ● (1; 1) ● (0; 0) ●

(2; 2) ● (1; 2) ●

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



BLANK PAGE

---

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (OCR) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

OCR is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.