

Paper Reference(s)

6689

Edexcel GCE

Decision Mathematics D1

Advanced/Advanced Subsidiary

Wednesday 24 May 2006 – Afternoon

Answer Booklet

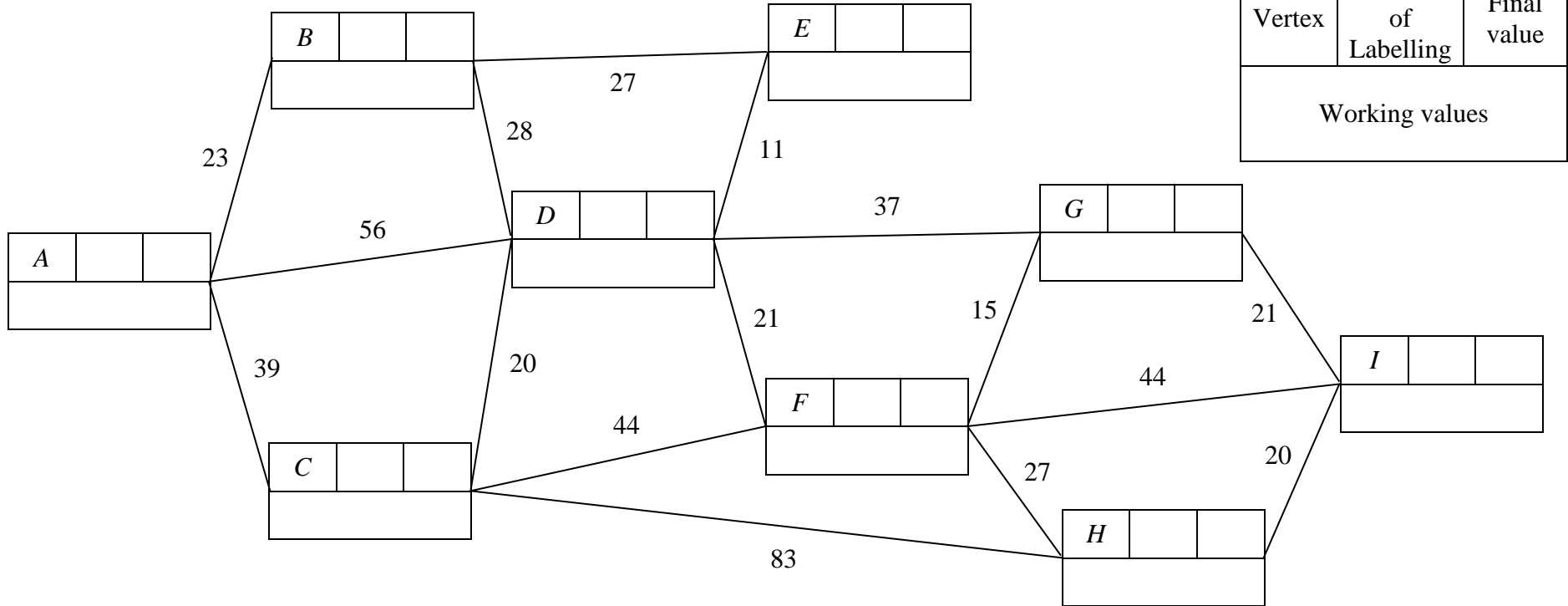
BLANK PAGE

BLANK PAGE

4.

.....

Diagram 1



KEY

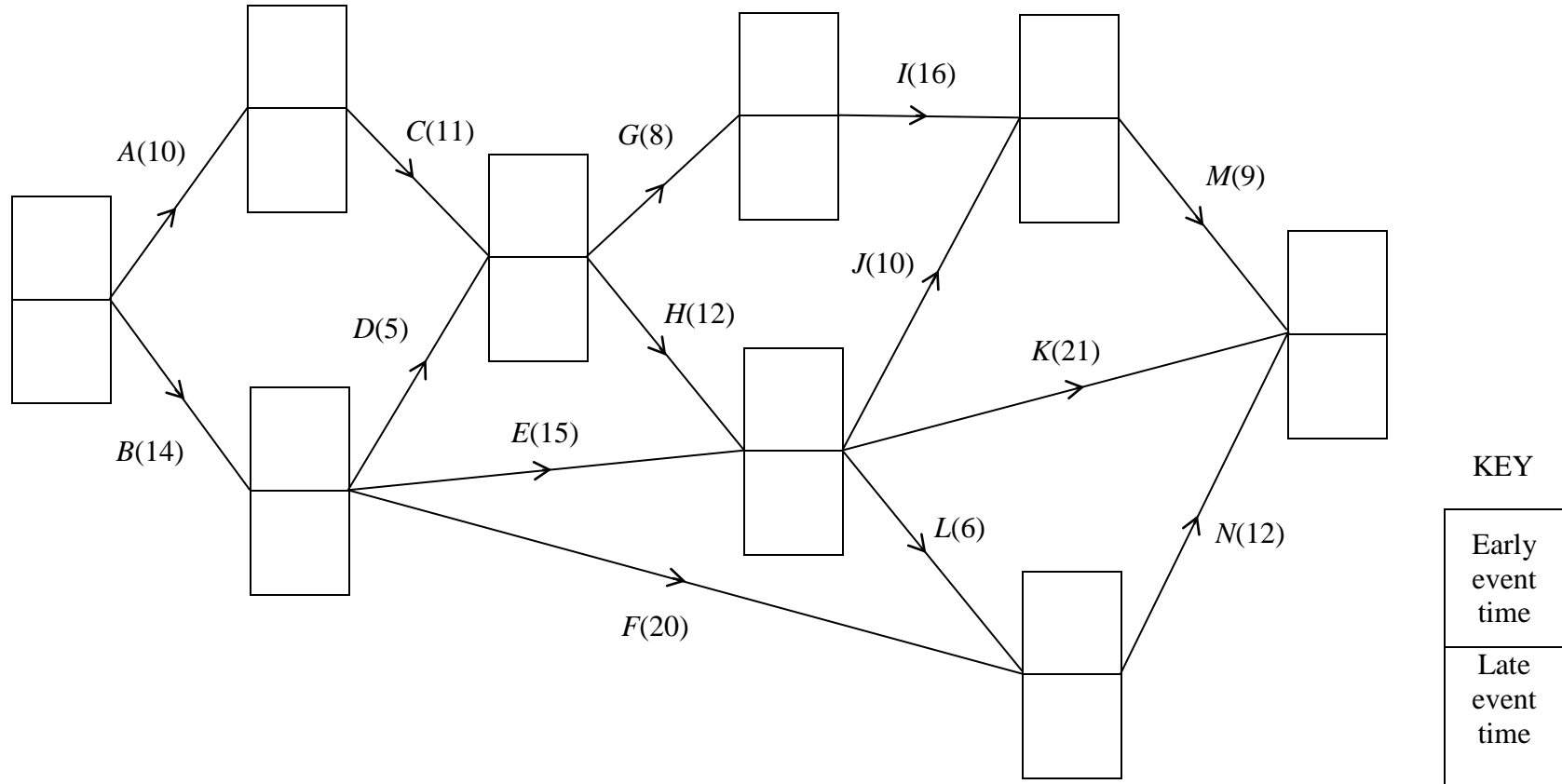
Vertex	Order of Labelling	Final value
Working values		

Shortest path

Length

5.

Diagram 1



6.

Basic variable	x	y	z	r	s	t	Value
r	7	10	10	1	0	0	3600
s	6	9	12	0	1	0	3600
t	2	3	4	0	0	1	2400
P	-35	-55	-60	0	0	0	0

You may not need to use all of these tableaux

b.v.	x	y	z	r	s	t	Value	Row Operations

b.v.	x	y	z	r	s	t	Value	Row Operations

b.v.	x	y	z	r	s	t	Value	Row Operations

b.v.	x	y	z	r	s	t	Value	Row Operations

b.v.	x	y	z	r	s	t	Value	Row Operations

.....

.....

.....

.....

.....

.....

.....

.....

.....

7.

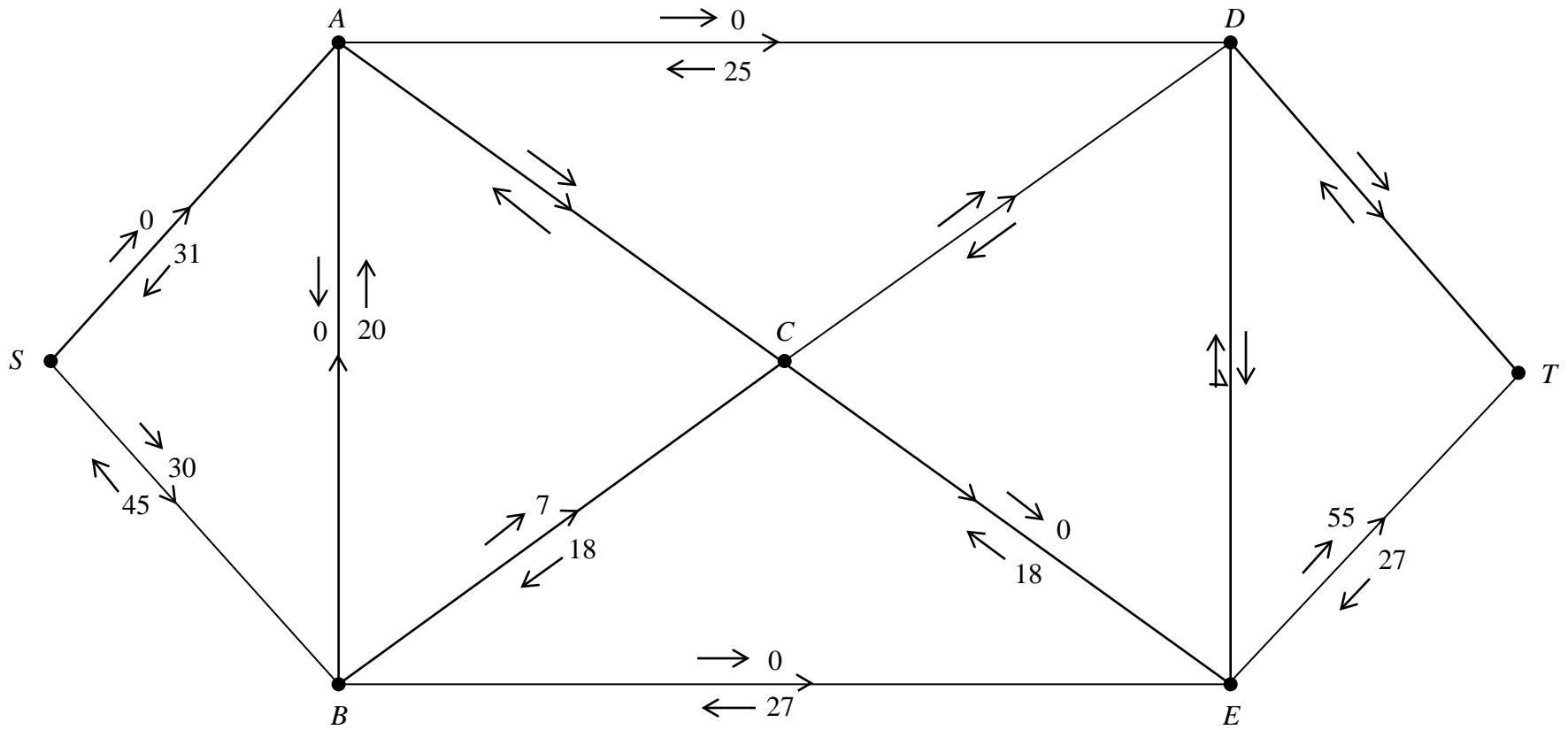
.....

.....

.....

Value of C_1 Value of C_2 Value of flow

Diagram 1



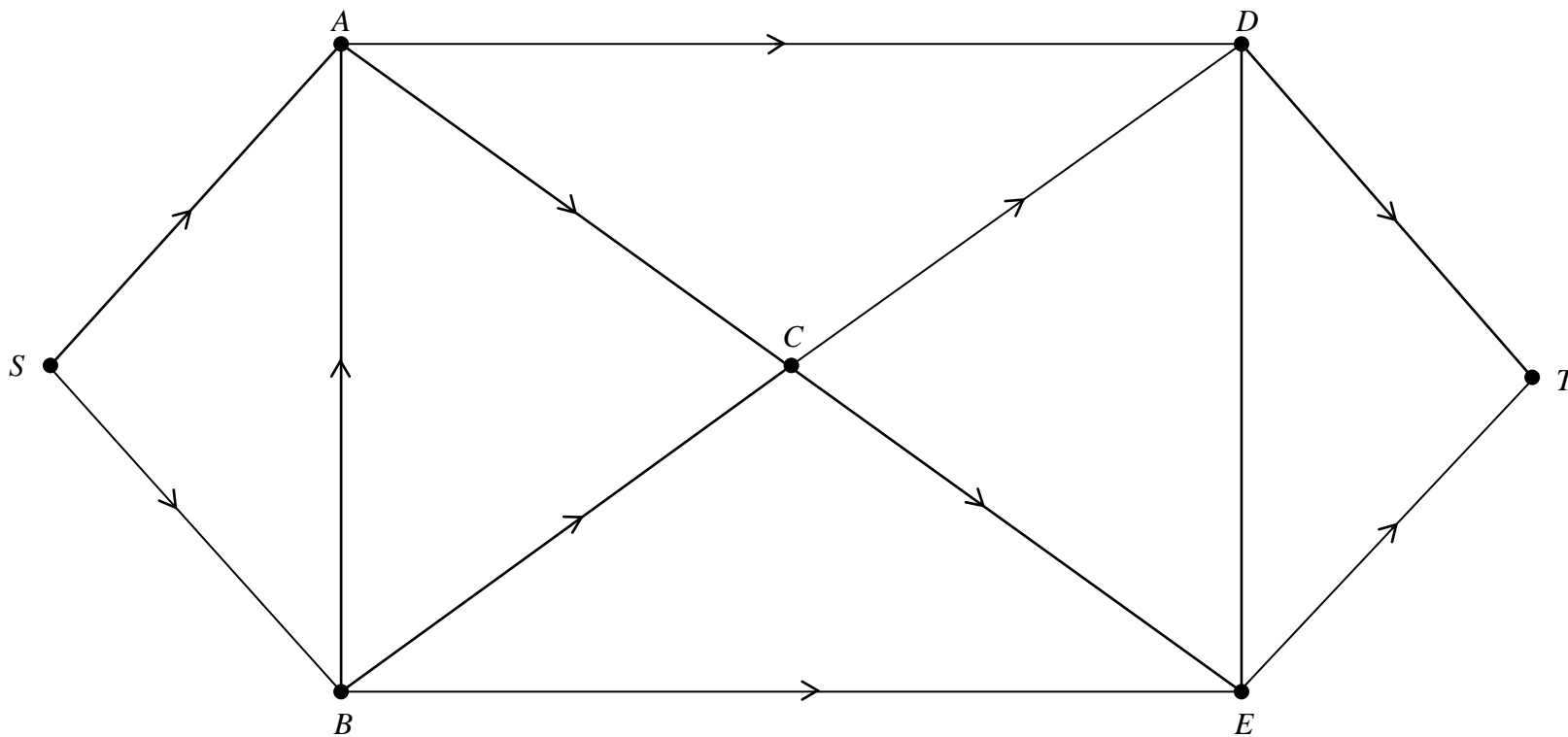
.....

.....

.....

Maximal Flow

Diagram 2



.....

.....

BLANK PAGE