## Downloaded from http://www.thepaperbank.co.uk

6689 Decision Mathematics 1 (New Syllabus)
June 2001

| Centre No. | Candidate No. | Surname and Initials (Block Letters) |
| :--- | :--- | :--- |

Question 4 to be answered on this page.

(b) $\qquad$
$\qquad$
$\qquad$
$\qquad$

## Downloaded from http://www.thepaperbank.co.uk

Question 6 to be answered on pages 2 and 3.
(a)
$\qquad$
$\qquad$
(b) (i) $S A B T$
(ii) $\operatorname{SCET}$
(c)


## Downloaded from http://www.thepaperbank.co.uk

Flow augmented paths
(e)

(f)

## Downloaded from http://www.thepaperbank.co.uk

Question 7 to be answered on this page.
(a) (i)
(ii) $\qquad$
$\qquad$
(b)

| Basic variable | $x$ | $y$ | $z$ | $r$ | $s$ | $t$ | Value |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $r$ | 1 | 0 | 1 | 1 | 0 | 0 | 4 |
| $s$ | 1 | 4 | 2 | 0 | 1 | 0 | 6 |
| $t$ | 1 | 1 | 2 | 0 | 0 | 1 | 12 |
| $P$ | -3 | -6 | -4 | 0 | 0 | 0 | 0 |


| Basic variable | $x$ | $y$ | $z$ | $r$ | $s$ | $t$ | Value |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| $P$ |  |  |  |  |  |  |  |


| Basic variable | $x$ | $y$ | $z$ | $r$ | $s$ | $t$ | Value |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| $P$ |  |  |  |  |  |  |  |

(c) $\qquad$
$\qquad$
$\qquad$
$\qquad$

