



**A-level
COMPUTER SCIENCE**

Paper 1

7517/1

Insert

FIGURE 2 for use in answering Question 3.

[Turn over]

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FIGURE 2

```
Q ← empty queue
FOR C1 ← 1 TO 6
  D[C1] ← 20
  P[C1] ← -1
  ADD C1 TO Q
ENDFOR
D[1] ← 0
WHILE Q NOT EMPTY
  U ← get next node from Q
  remove U from Q
  FOR EACH V IN Q WHERE AM[U, V] > 0
    A ← D[U] + AM[U, V]
    IF A < D[V] THEN
      D[V] ← A
      P[V] ← U
    ENDIF
  ENDFOR
ENDFOR
OUTPUT D[6]
```

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