A

AQA

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]
```

END OF SOURCES

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