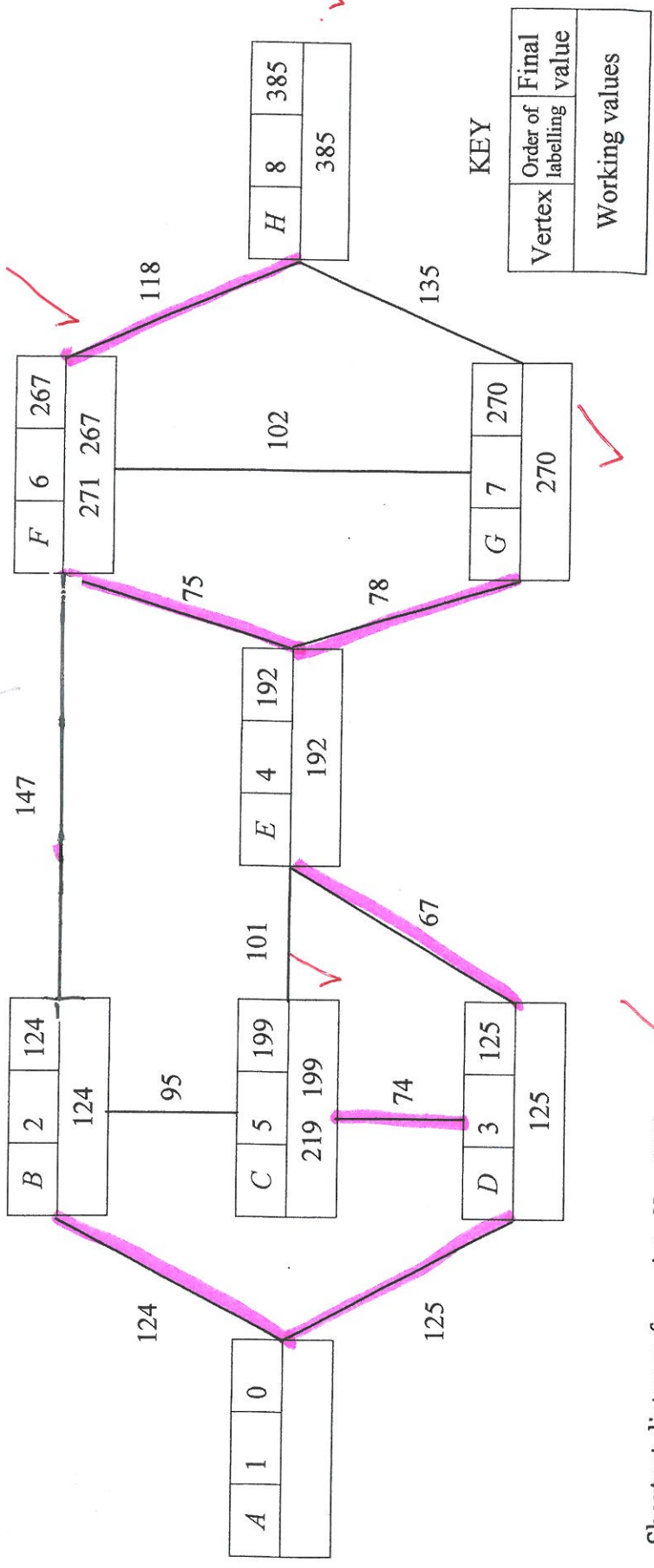


1.



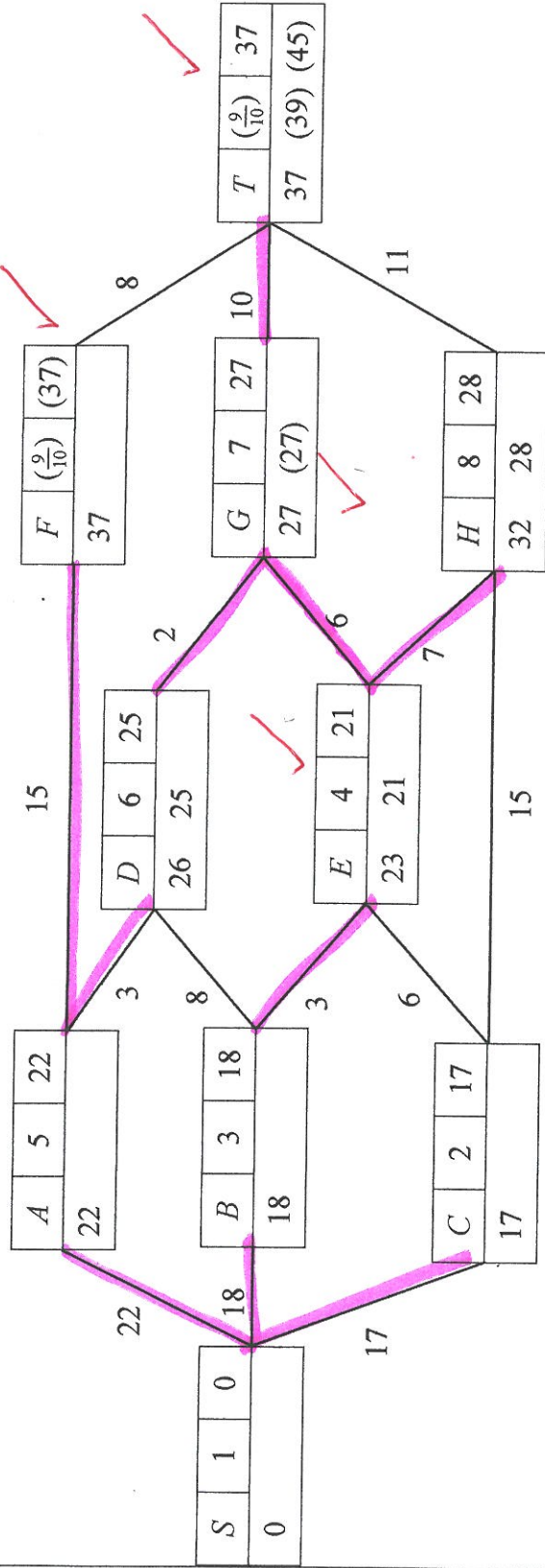
Shortest distance from A to H = 385m  
 (Route ADEFH) *not asked for*

*must state*

Question Number  
2. (a)

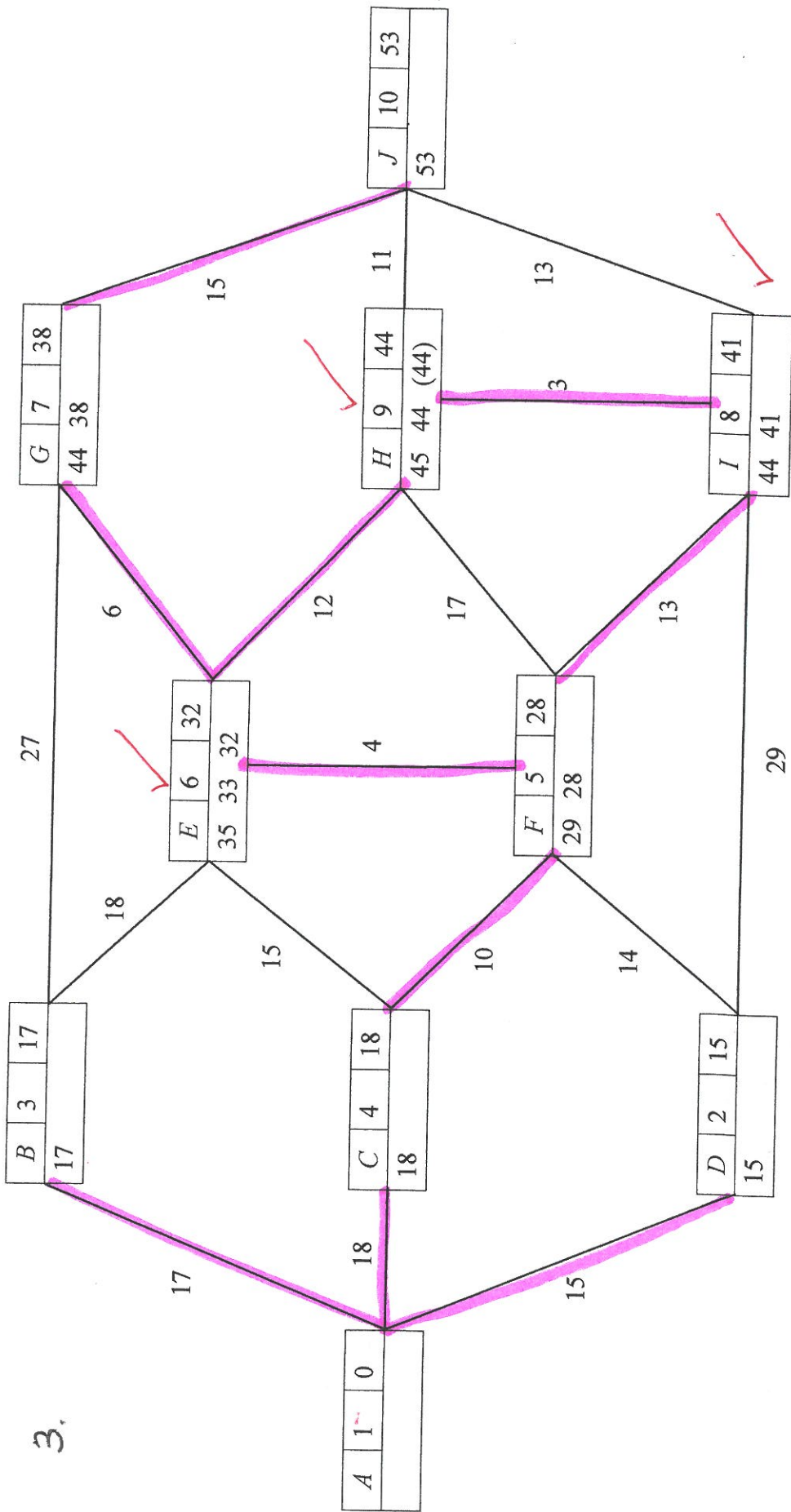
Scheme

Marks



- Time = 37 minutes ✓ must state ✓  
 (b) Either S - A - D - G - T or S - B - E - G - T ✓  
 Not unique, e.g. gives other path ✓  
 (c) S - C - E - G - T ✓ 39 minutes ✓

(10)



- a) Shortest route: .....ACFEGJ..... Length: 53 km ✓
- b) traced back from J choosing the next connected edge whose length equalled the difference in the final labels of the end vertices. ✓
- c) e.g. ADFEGJ or ACEGJ length 54 km ✓

(10)