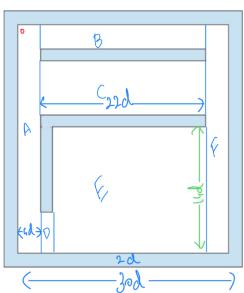
Q[.

A

B



Size of robot: d => diameter

$$A = (4 \times 30) d^{2}$$

$$B = (4 \times 22) d^{2}$$

$$C = (8 \times 22) d^{2}$$

$$D = (2 \times 6) d^{2}$$

$$E = (4 \times 20) d^{2}$$

$$F = (4 \times 30) d^{2}$$

Support Robot Guers. L'area per second

Time To Cover

1200

88 0

176 S

2805

1205

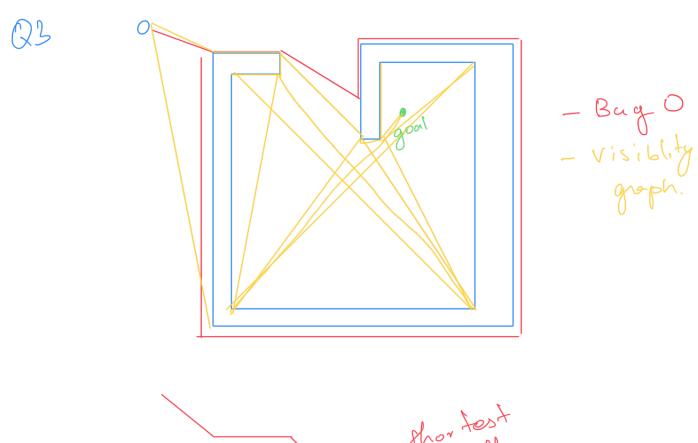
If Start is the to left orner of A. Pith would be

Total time £ 120 + 88+120+10+176 + 18+12+120)

T = 664 D.

Q2. Suppose we Start from Bottom Left Giner of A Path taken would be

 $A \rightarrow D \rightarrow E \rightarrow F^{20} \rightarrow C \rightarrow A^{10} \rightarrow B$   $T - T' = 4 \rightarrow D$   $T' = 660 \rightarrow S$   $T' = 660 \rightarrow S$ 



& shortest path.

(26) We can avoid collision 13/w pursuers by following ways.

By constraining the Distance B/w the Pursuers

By Sharing the details of next cell a passions would go to and preventing the collaision.

We can also we potential field path planning with pursuer as obstacle and evader as the goal.

94

