Every grid in $10cm^2$

For station, A_1,

$A_1 = (22 \times 10) + 11.33$ (×10)

$= 333.33 cm^2$

$A_2 = 330 + 10.1$

$= 471.5 cm^2$

$A_3 = 290 + 66.6$

$= 356.6 cm^2$

$A_4 = 150 + 74$

$= 225 cm^2$

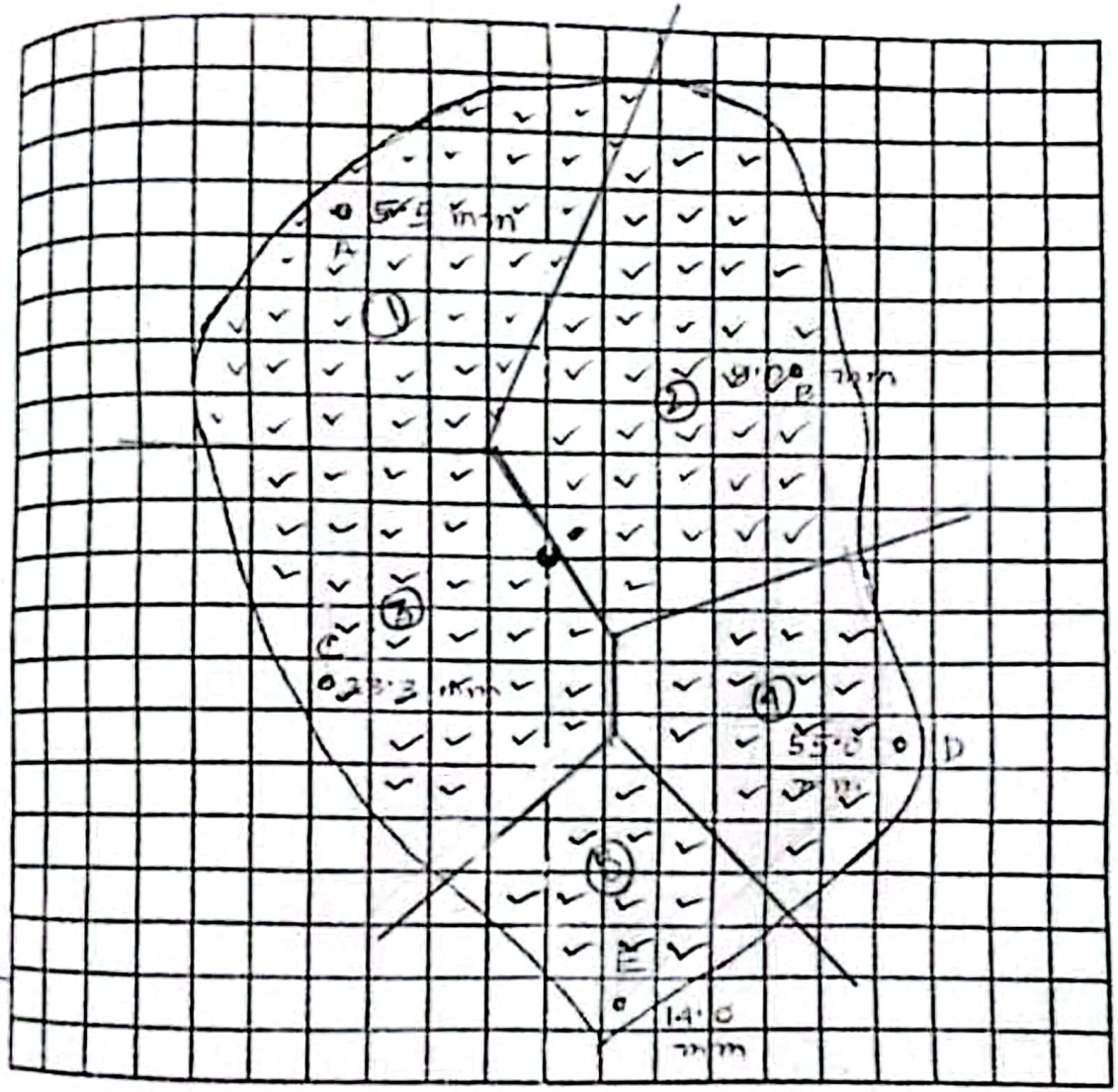
$A_5 = 100 + 61$

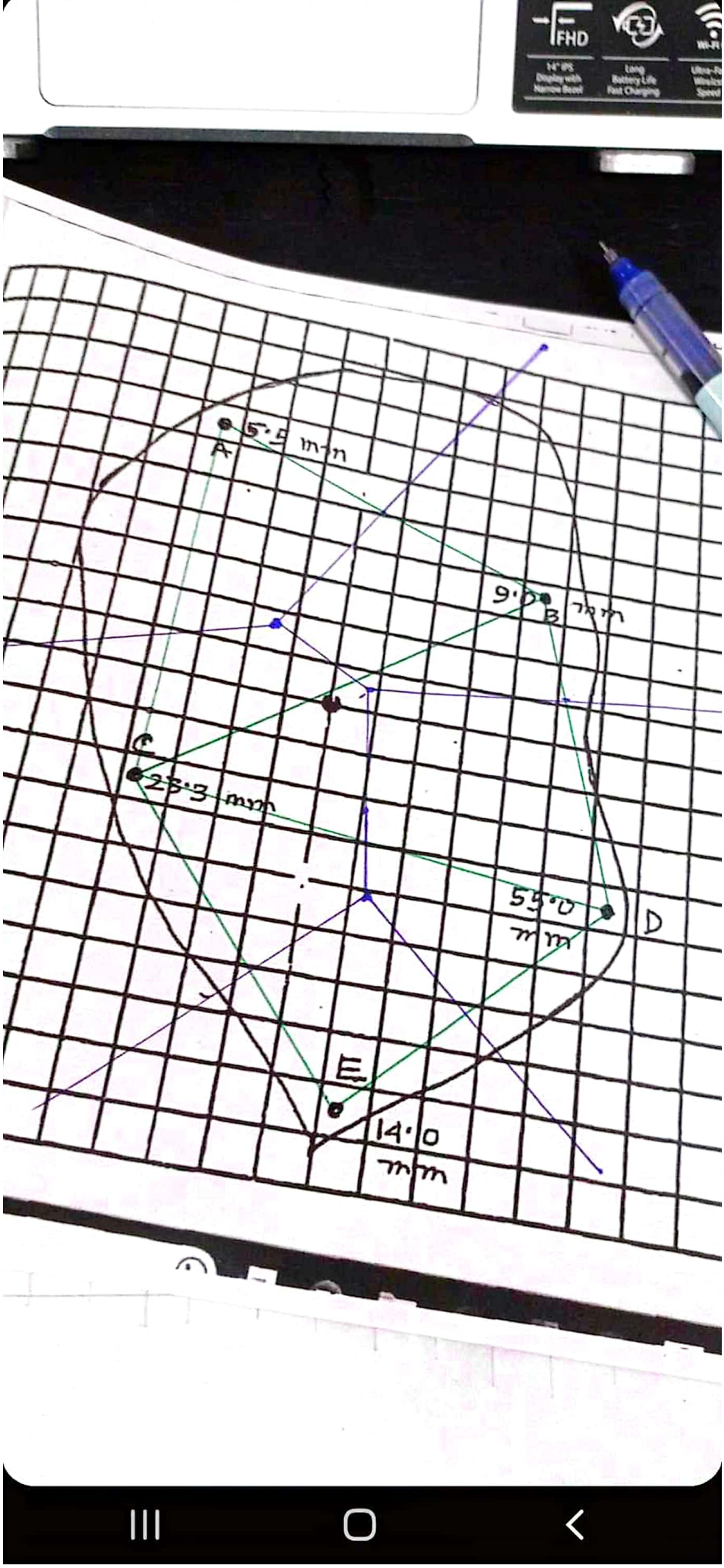
$= 161 cm^2$

$\therefore A = 1547.43 cm^2$

$\therefore \bar{P} = \frac{\sum A_i P_i}{A}$

$= 1.875 cm$




FHD
A
5·5 mm
B
9·0 mm
C
25·3 mm
D
55·0 mm
E
14·0 mm

An urban watershed has four rainfall gages (Figure 1). The total rain recorded at each gage ... a storm event is listed below. With 1 km x 1 km grid, determine the average rainfall for ... storm by the arithmetic mean method and by using Thiessen polygons method.

Gage	Rainfall (cm)
A	3.26
B	2.92
C	3.01
D	3.05

0.0326×10^{-3}
0.0292×10^{-3}
0.0301×10^{-3}
0.0305×10^{-3}

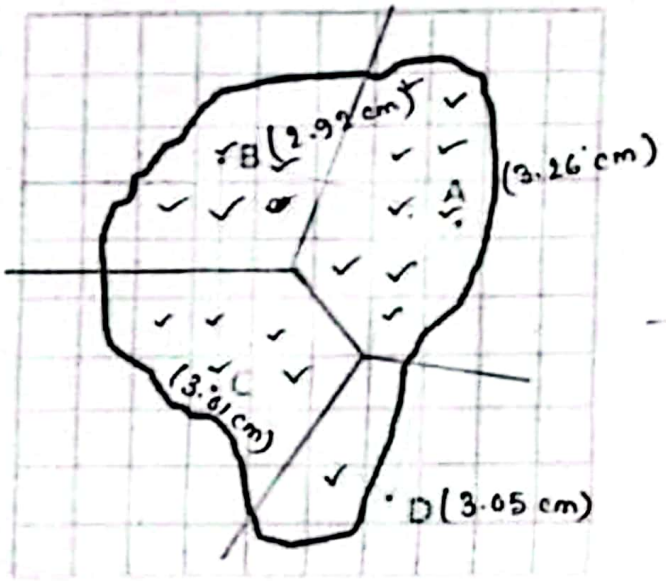


Figure 1 Watershed map for question

$A_1 = (9 \times 1) + 4.45 = 13.45\ km^2$

$A_2 = 4 + 6.05 = 10.05\ km^2$

$A_3 = 5 + 5.35 = 10.35\ km^2$

$A_4 = 1 + 3.55 = 4.55\ km^2$

$\therefore A = 37.4\ km^2$

$$\therefore \bar{P} = \frac{\sum A_i P_i}{A}$$

$= 3.1610 \times 10^{-5}\ km$

$= 3.16\ cm$

CamScanner

An urban watershed has four rainfall gages (Figure 1). The total rain recorded at each gage during a storm event is listed below. With 1 km x 1 km grid, determine the average rainfall for this storm by the arithmetic mean method and by using Thiessen polygons method.

Gage	Rainfall (cm)
A	3.26
B	2.92
C	3.01
D	3.05

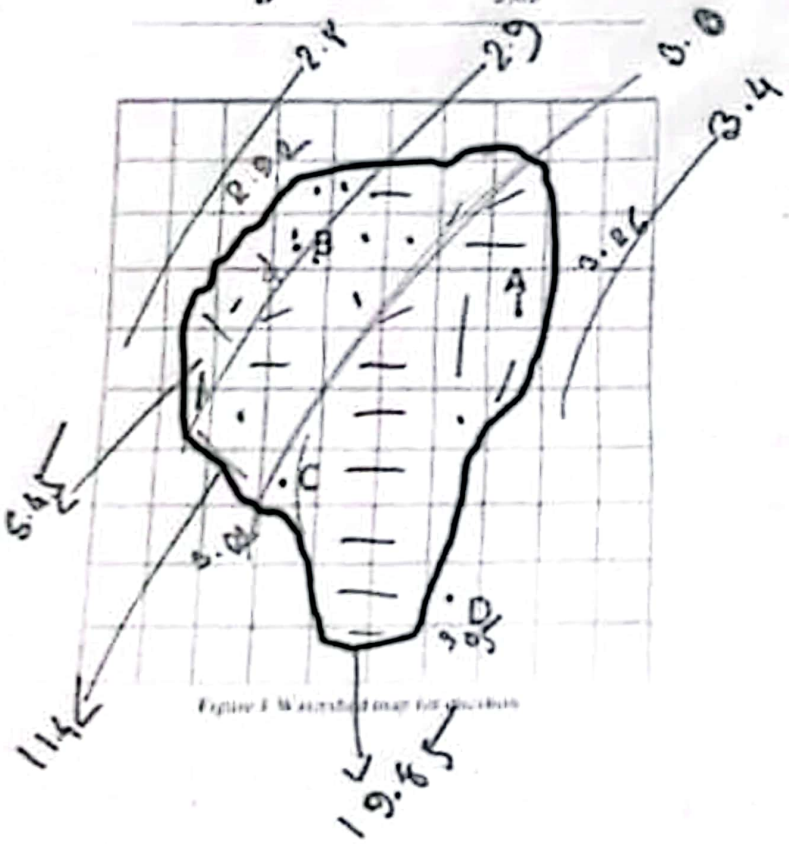


Figure 1 Watershed map for question

$P = \frac{63.52 + 33.63 + 15.5325}{36.7}$

$= 3.07$ cm

$$\frac{32.6 + 29.2}{4}$$

$= 0.85$ mm

Zone	Isohyetal	Mean	Area
1	< 30.5	29.2	12.7 km²
2		30.85	15.58
3	30.9 – 31.75	31.325	6.29
4	31.75 – 32.6	32.175	2.62
5	> 32.6	32.6	0.7

$$\bar{P} = \frac{\Sigma A_i P_i}{A}$$

$= 3.03$ cm

1- An urban watershed has four rainfall gages (Figure 1). The total rain recorded at each gage during a storm event is listed below. With Latex 1 km grid determine the average rainfall for this storm by the arithmetic mean method and by using Thiessen polygons method

Gage	Rainfall (cm)
A	32.6
B	29.2
C	30.1
D	30.5

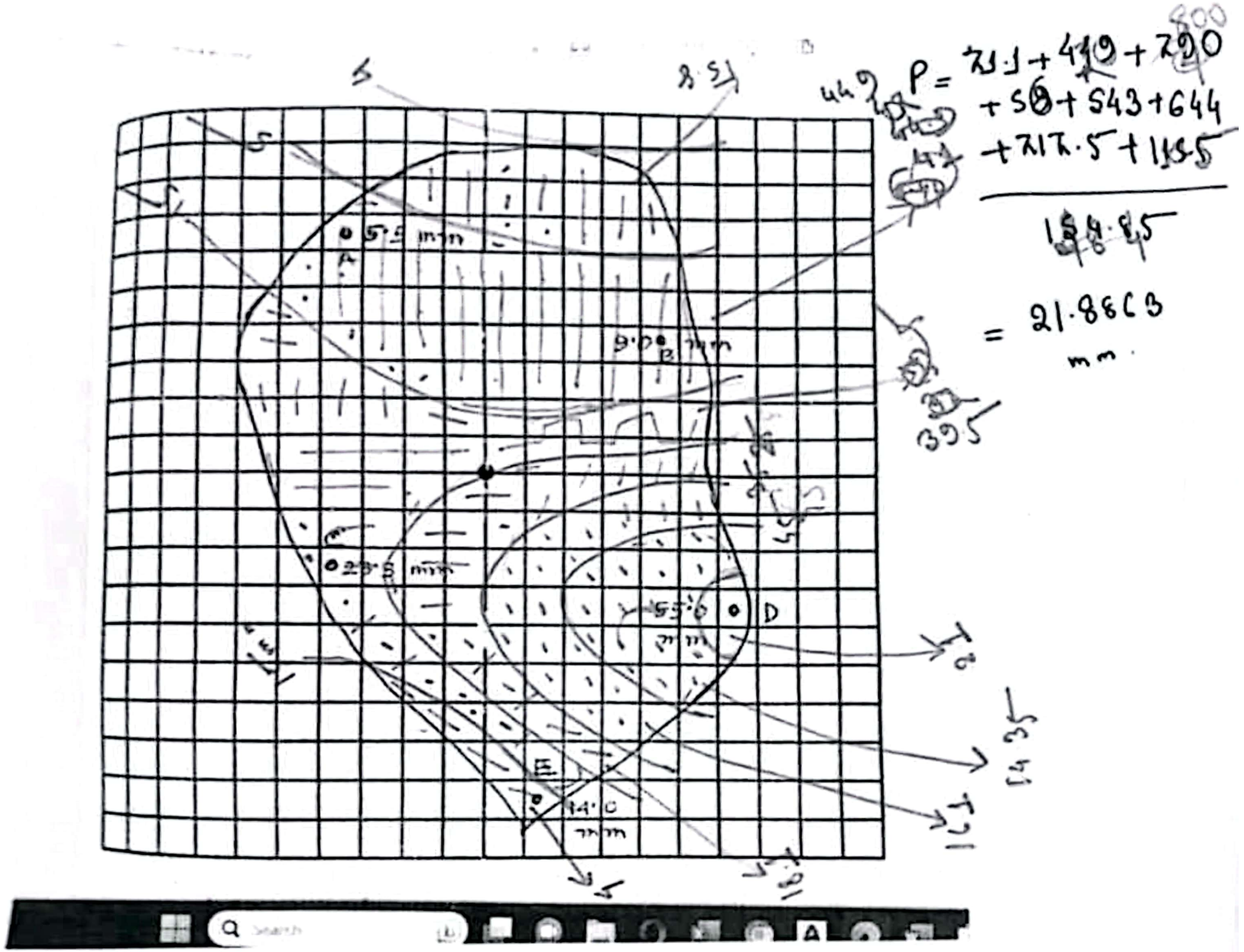
$= 32.6$ mm

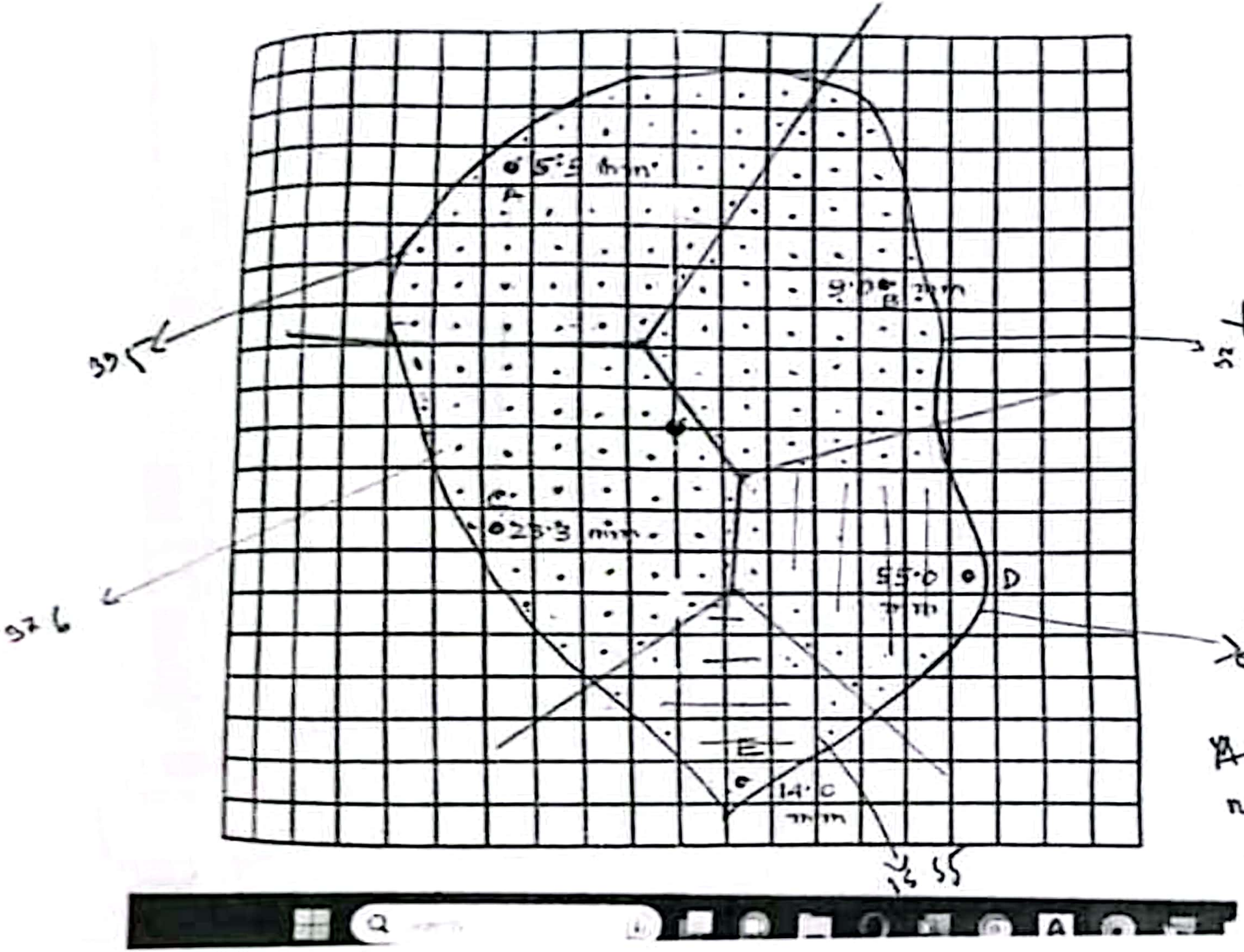
$= 29.2$ mm

$= 30.1$ mm

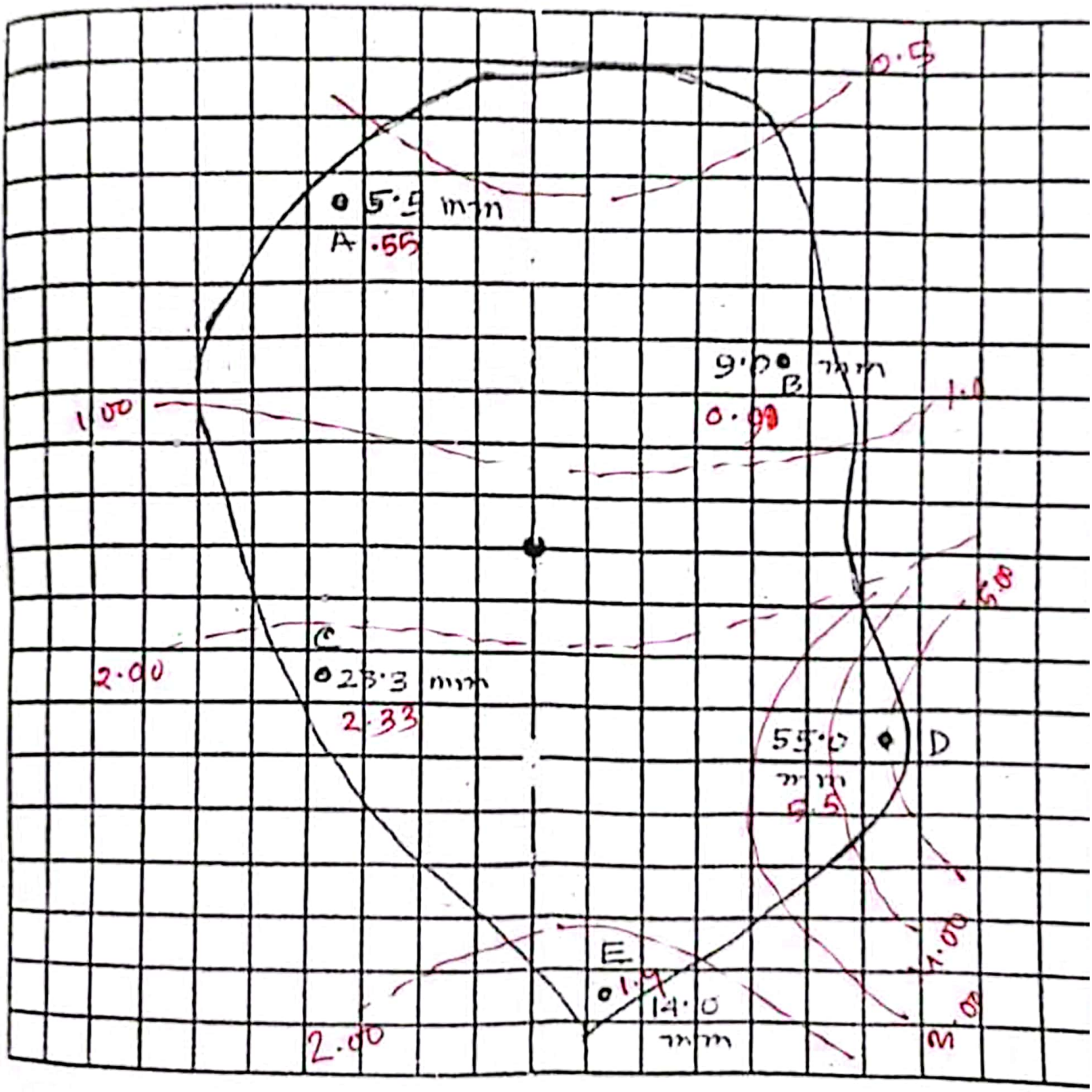
$= 30.5$ mm

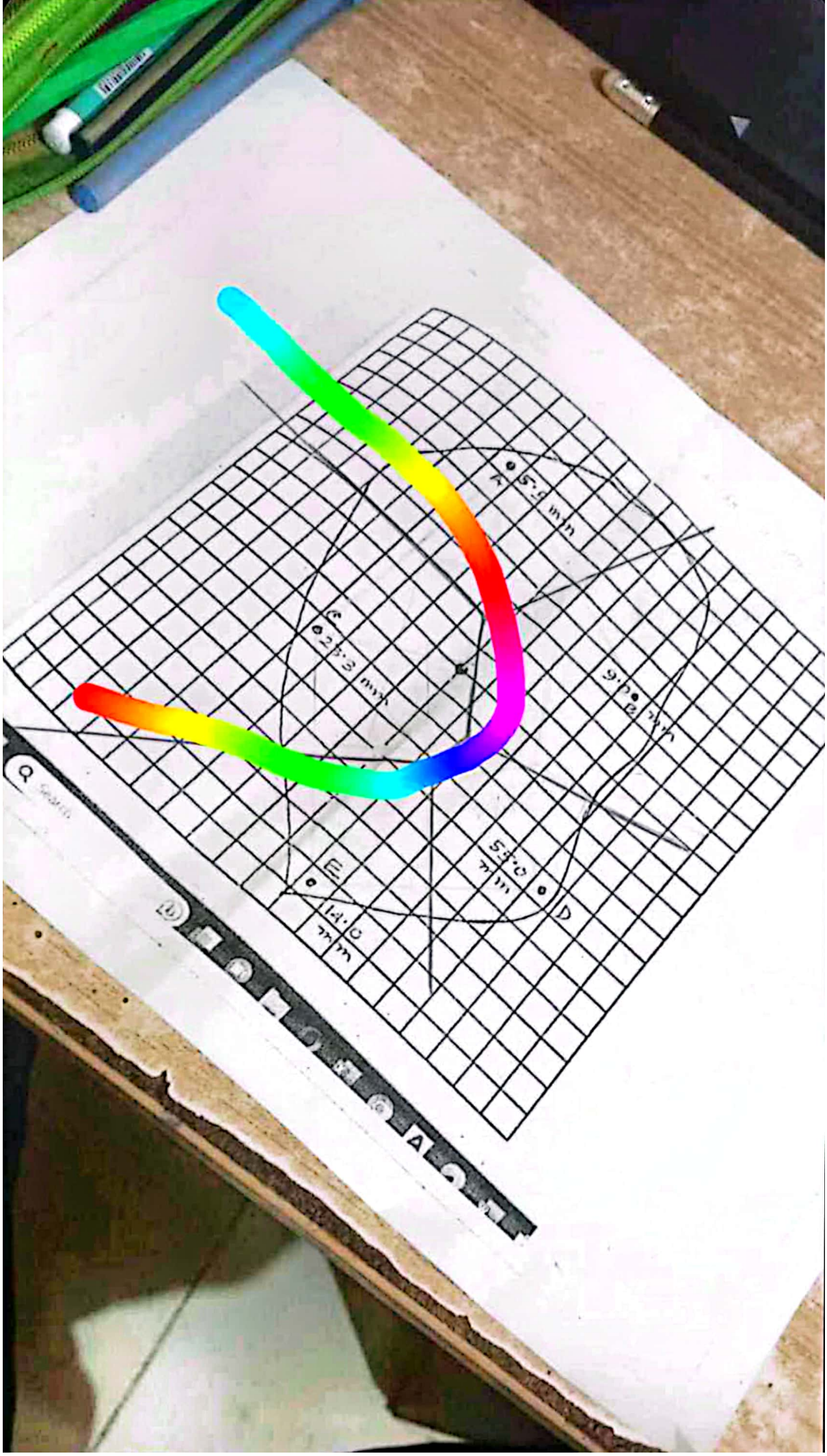
Figure 1 Watershed data for question


P = 211 + 419 + 290
+ 580 + 543 + 644
+ 217.5 + 135
= 21.86 C3
mm.
395
5.5 mm
9.0 B mm
23.5 mm
55.0 D
14.0 mm

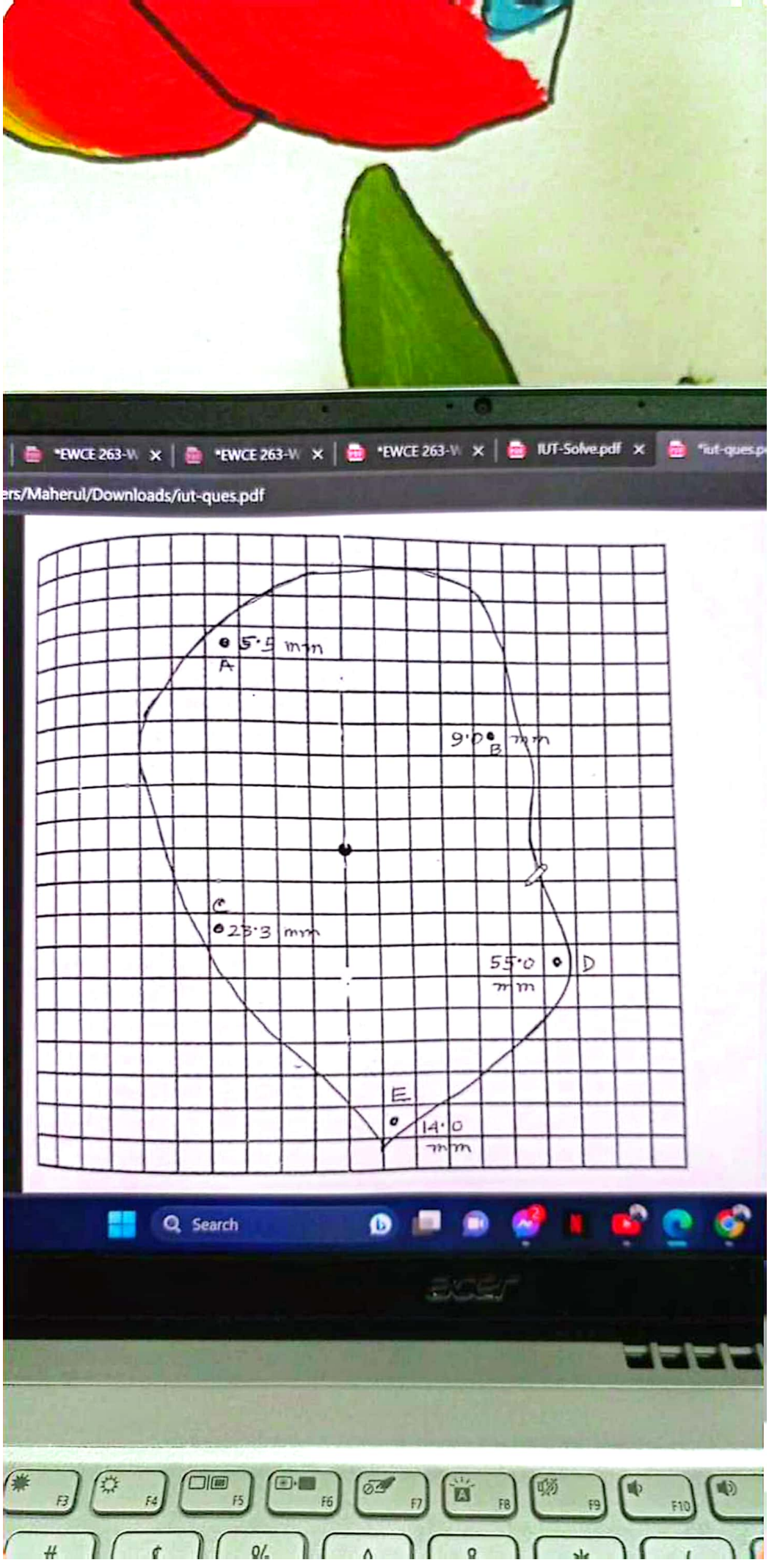


Average rainfall = 1.969 cm


0.5
5.5 mm
A .55
9.0 mm
B
0.9
1.0
1.00
C
2.00
23.3 mm
2.33
5.0
55.0 mm
5.5
D
E
0.7
14.0 mm
2.00
3.00
Search


A
5·5 mm
B
23·3 mm
C
9·2 mm
D
5·5 mm
E
14·0 mm

CamScanner


*EWCE 263-W
*EWCE 263-W
*EWCE 263-W
IUT-Solve.pdf
ers/Maherul/Downloads/iut-ques.pdf
5·5 mm
A
9·0 mm
B
C
25·3 mm
55·0 mm
D
E
14·0 mm
Search