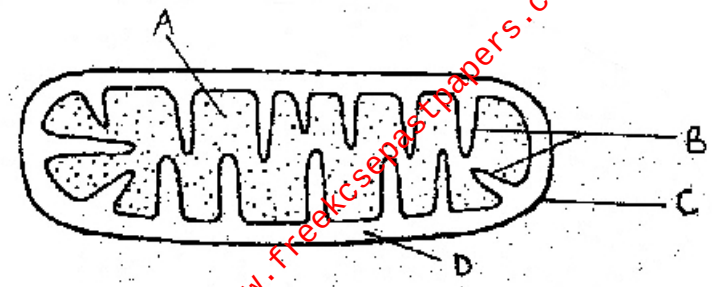
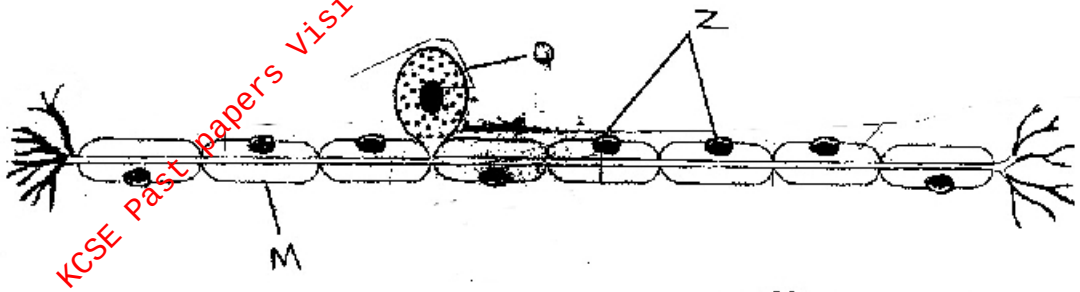
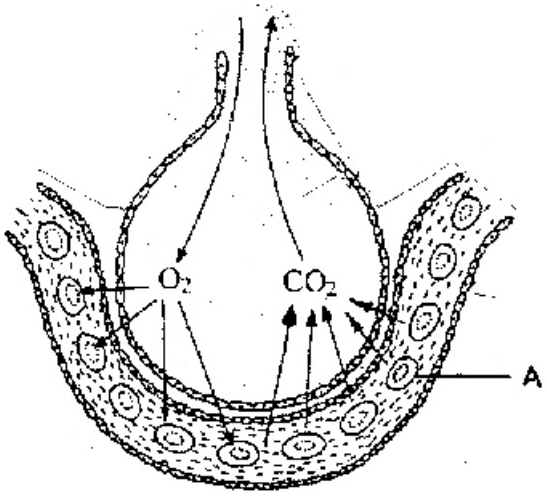
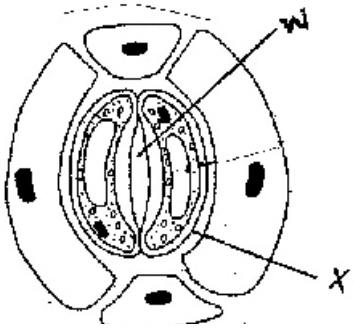
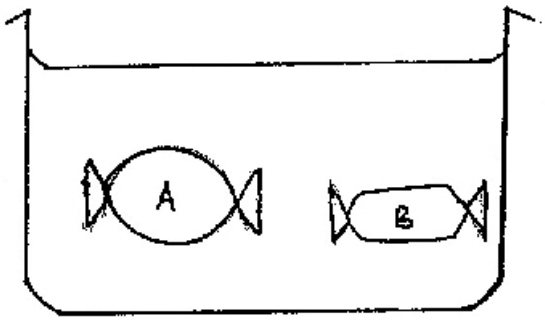
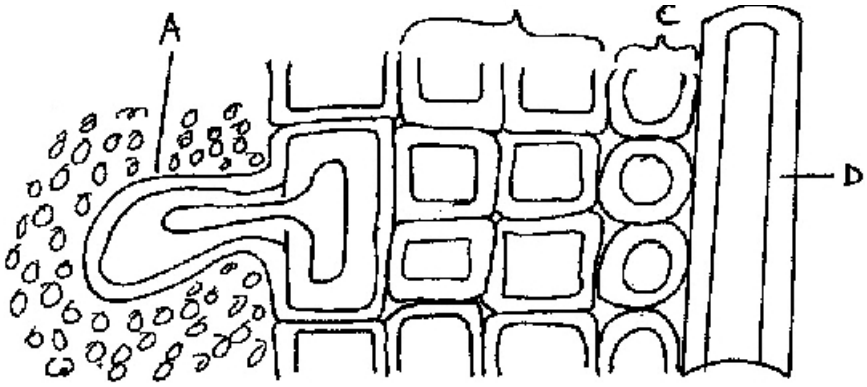


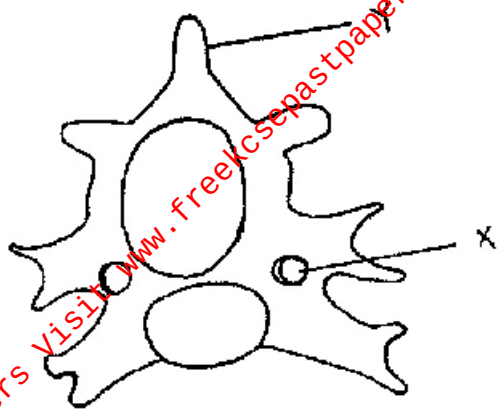


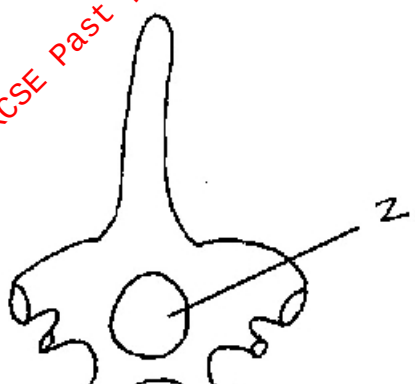


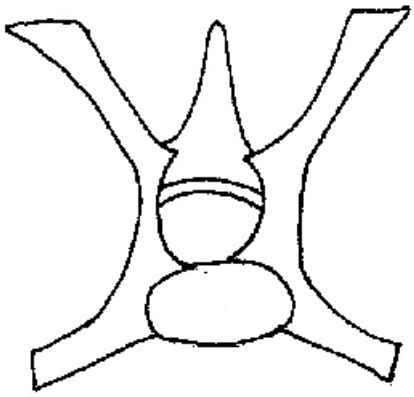


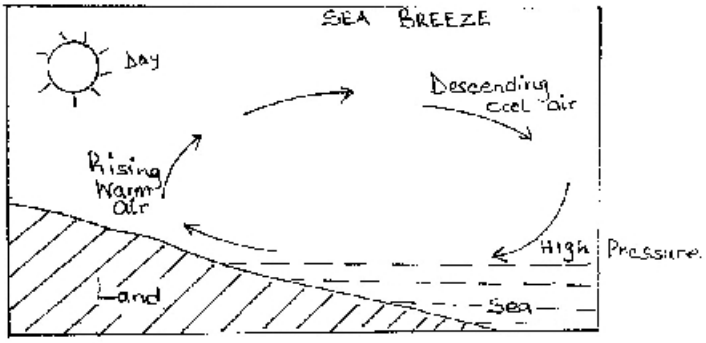


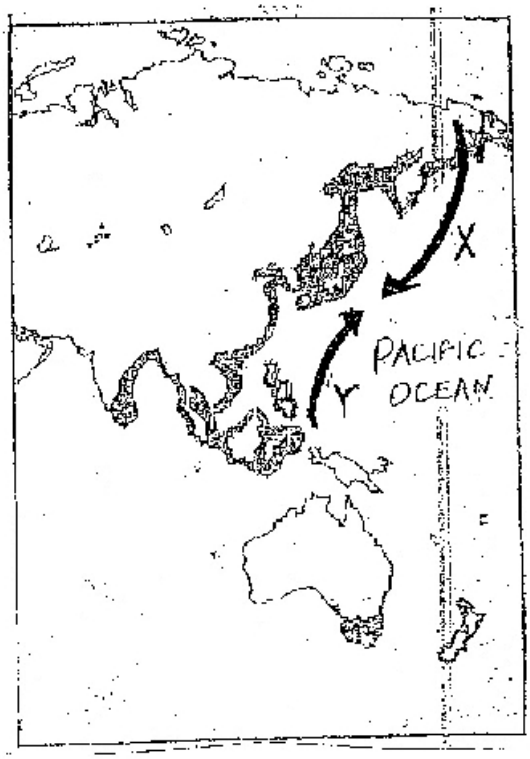


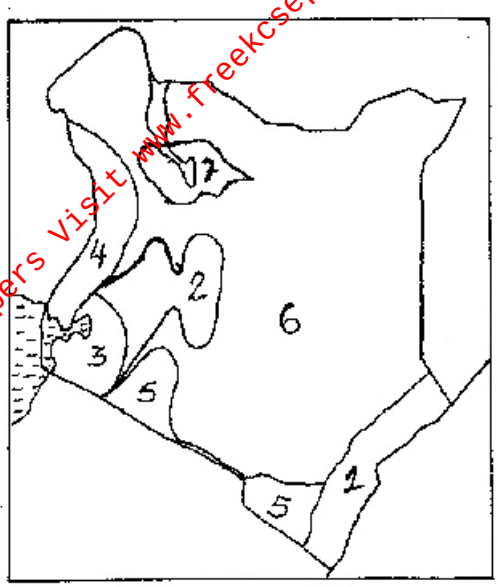


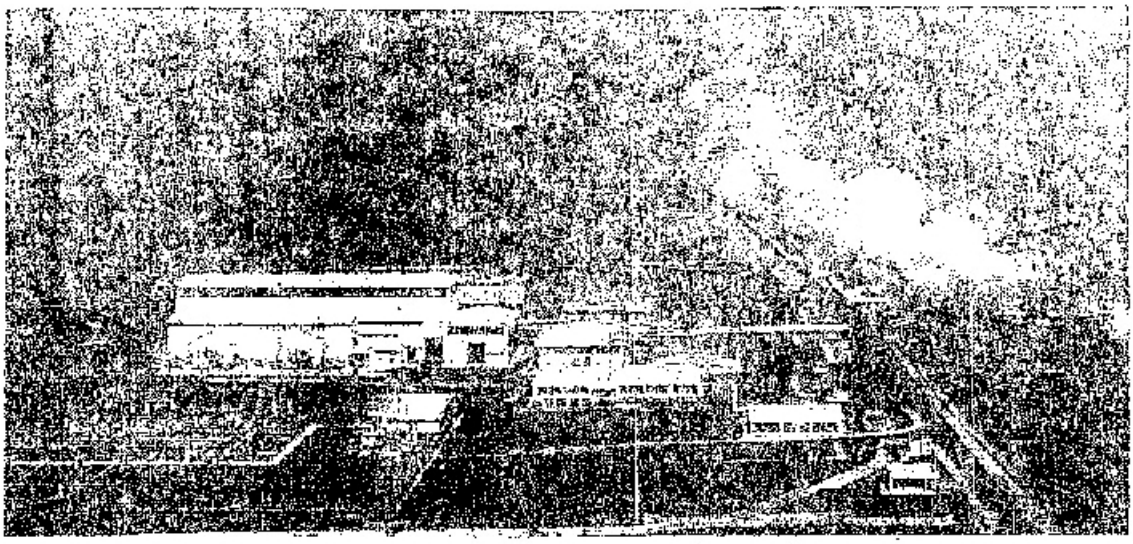


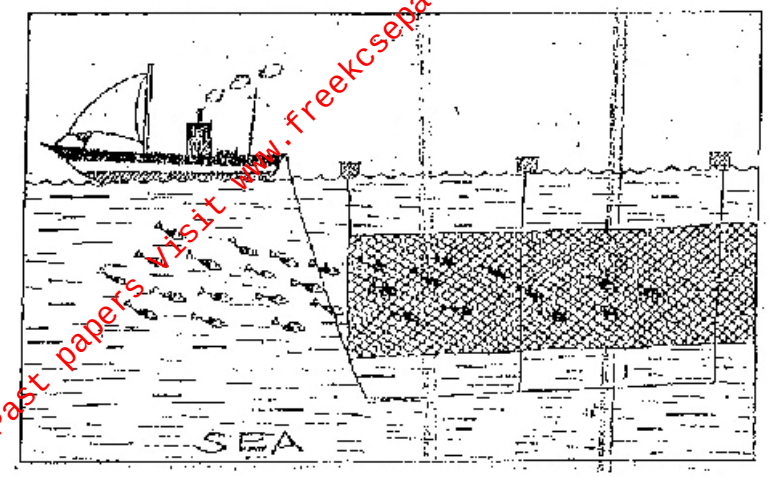


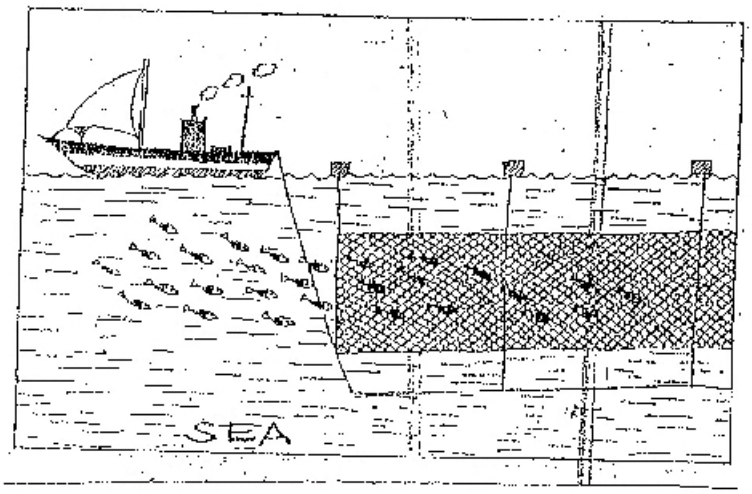


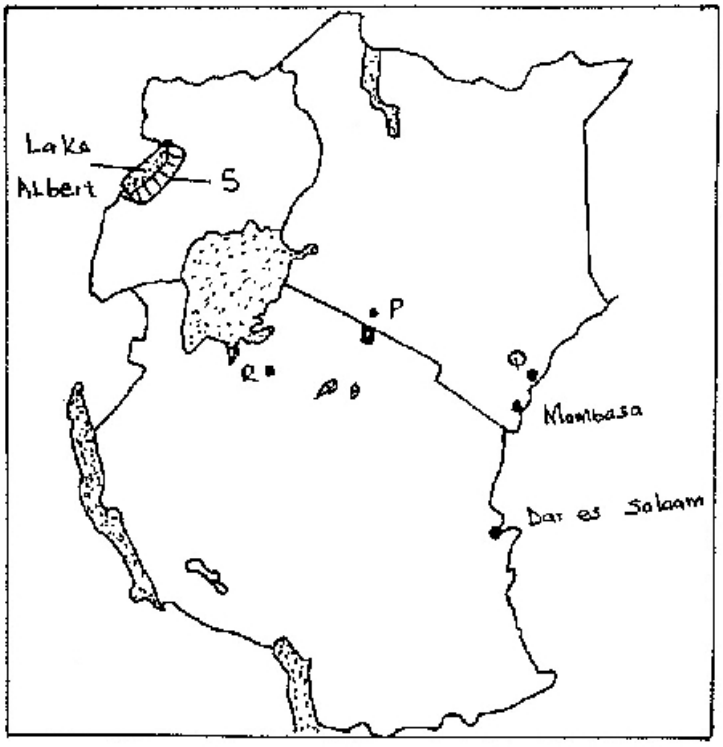


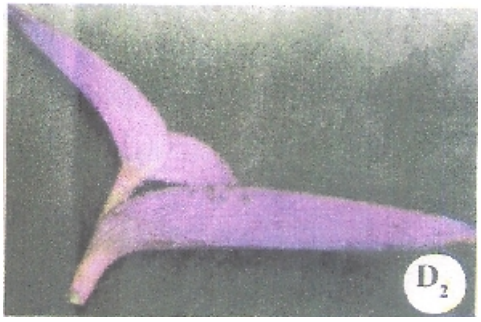


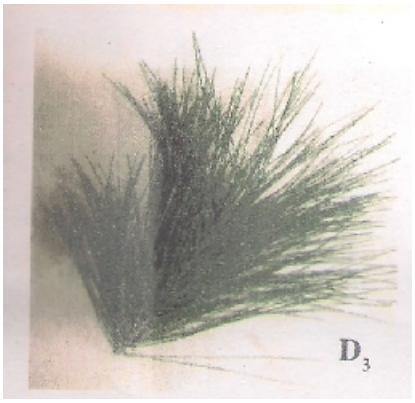


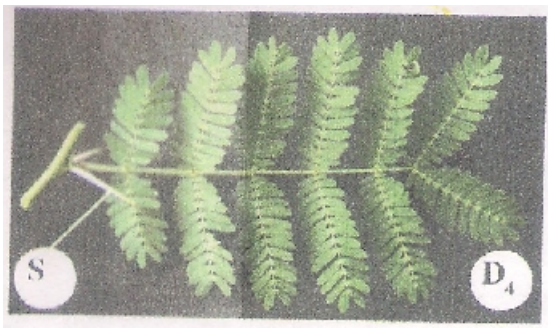


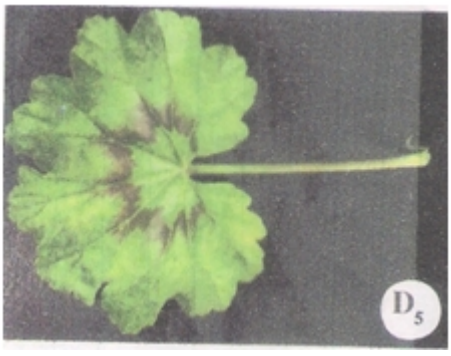


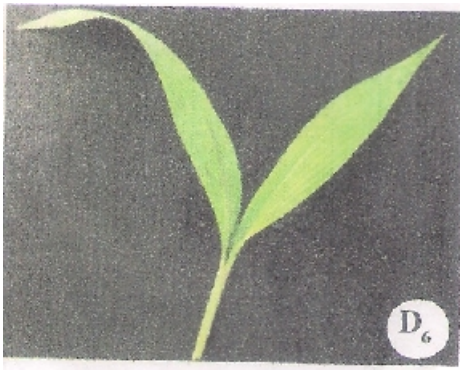


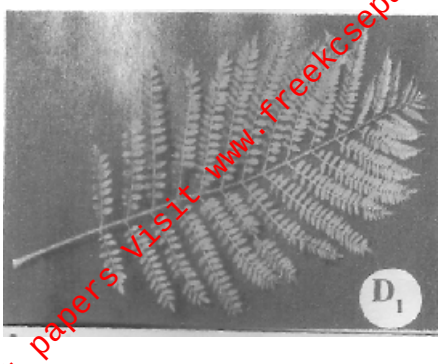


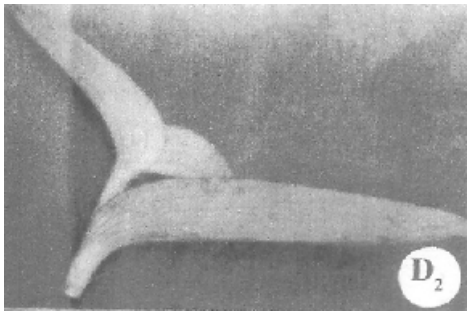


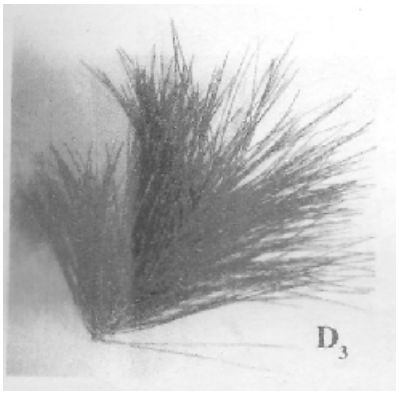


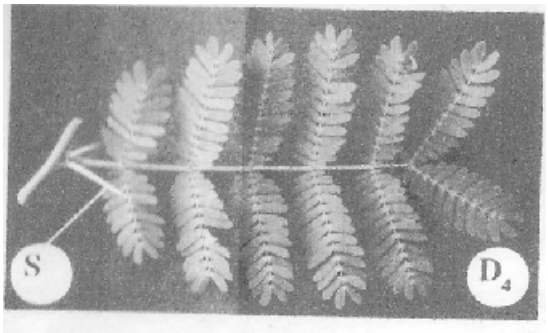


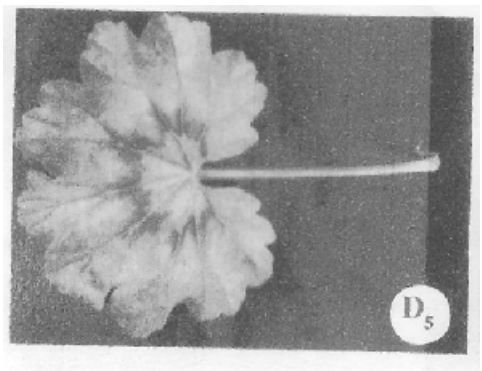


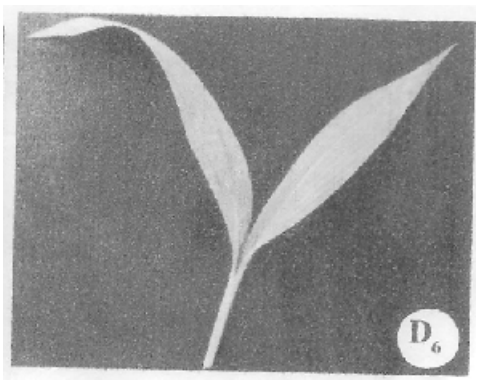


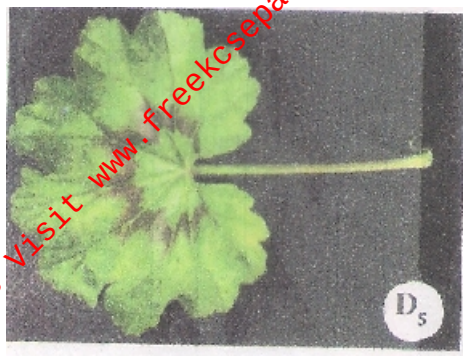


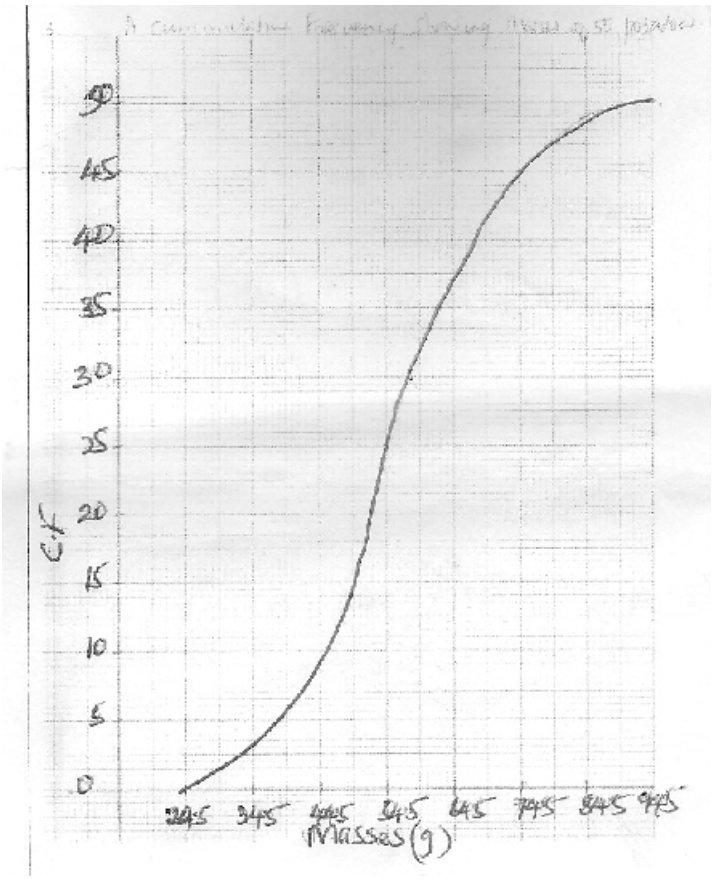








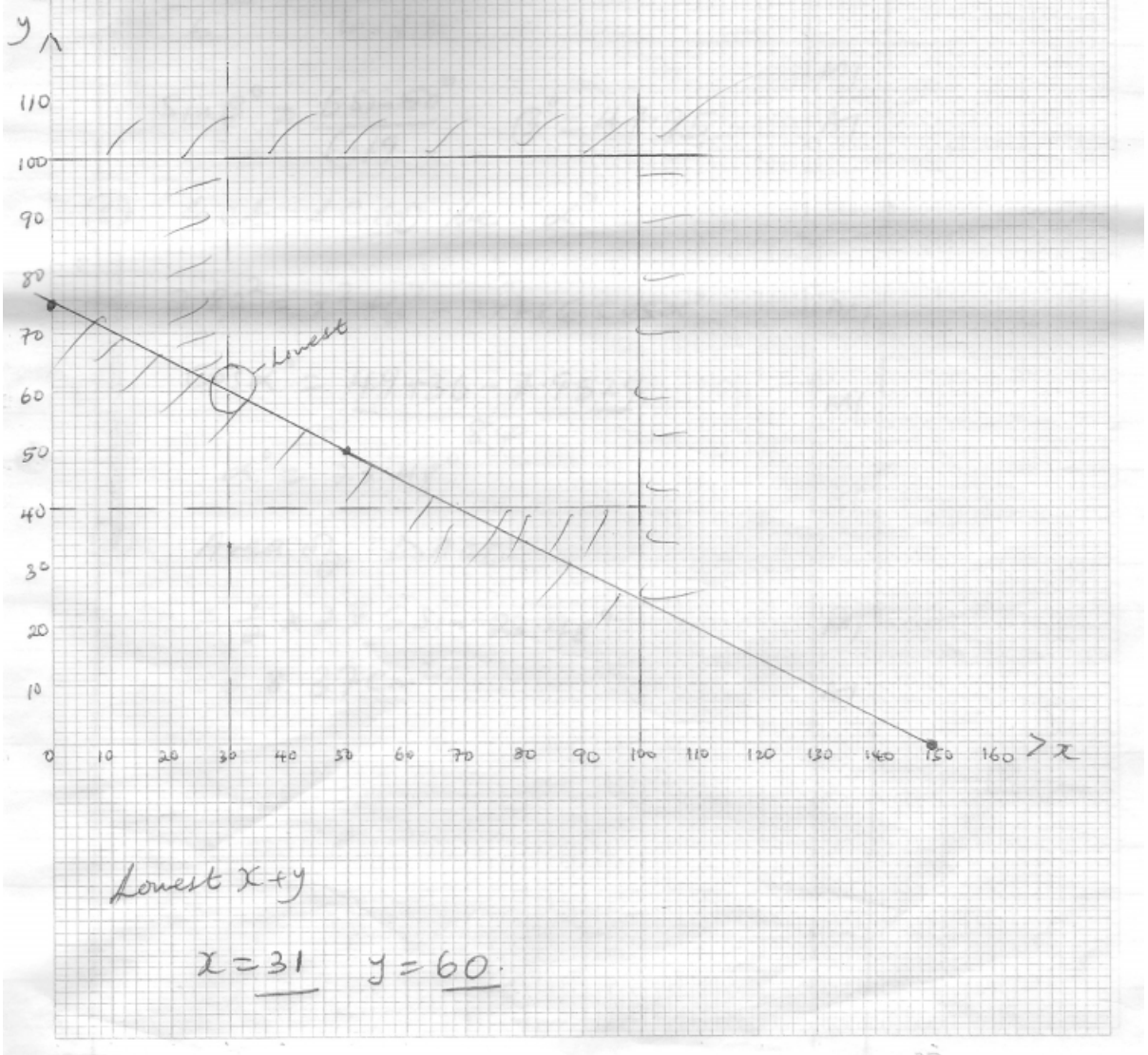




(a) $x + 2y \geq 150$

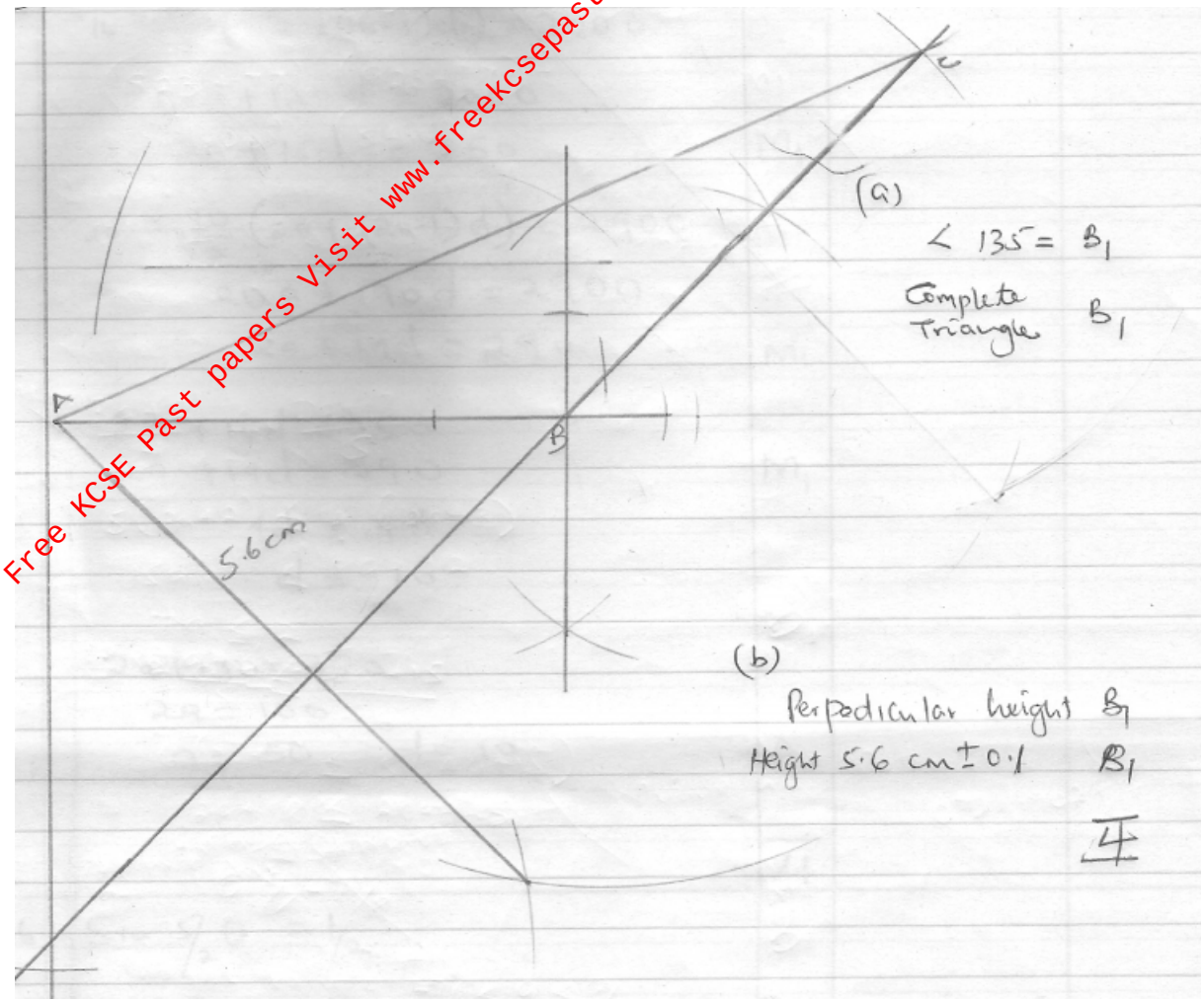
$x > 30$ $\quad x \leq 100$

$y > 40$ $\quad y \leq 100$



Lowest $x + y$

$x = 31$ $\quad y = 60$.



(a)

$\angle 135 = B_1$

Complete Triangle B_1

(b)

Perpodicular height B_1

Height 5.6 cm ± 0.1 B_1

4

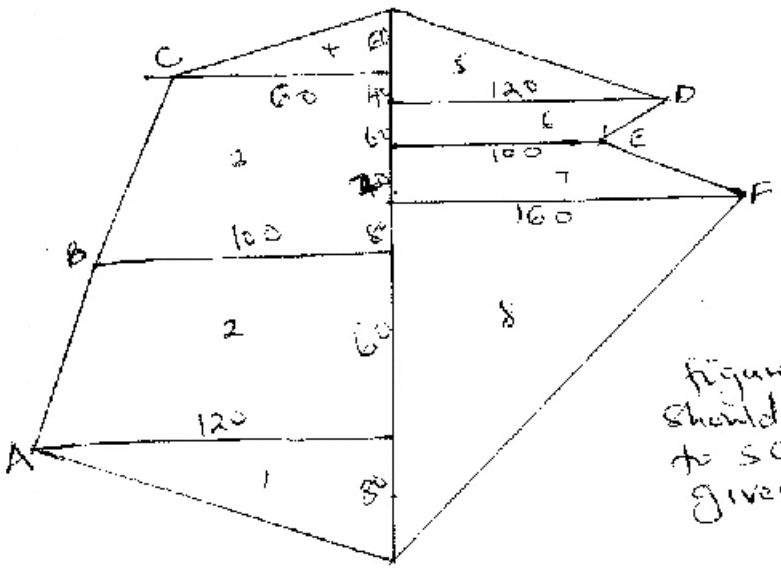
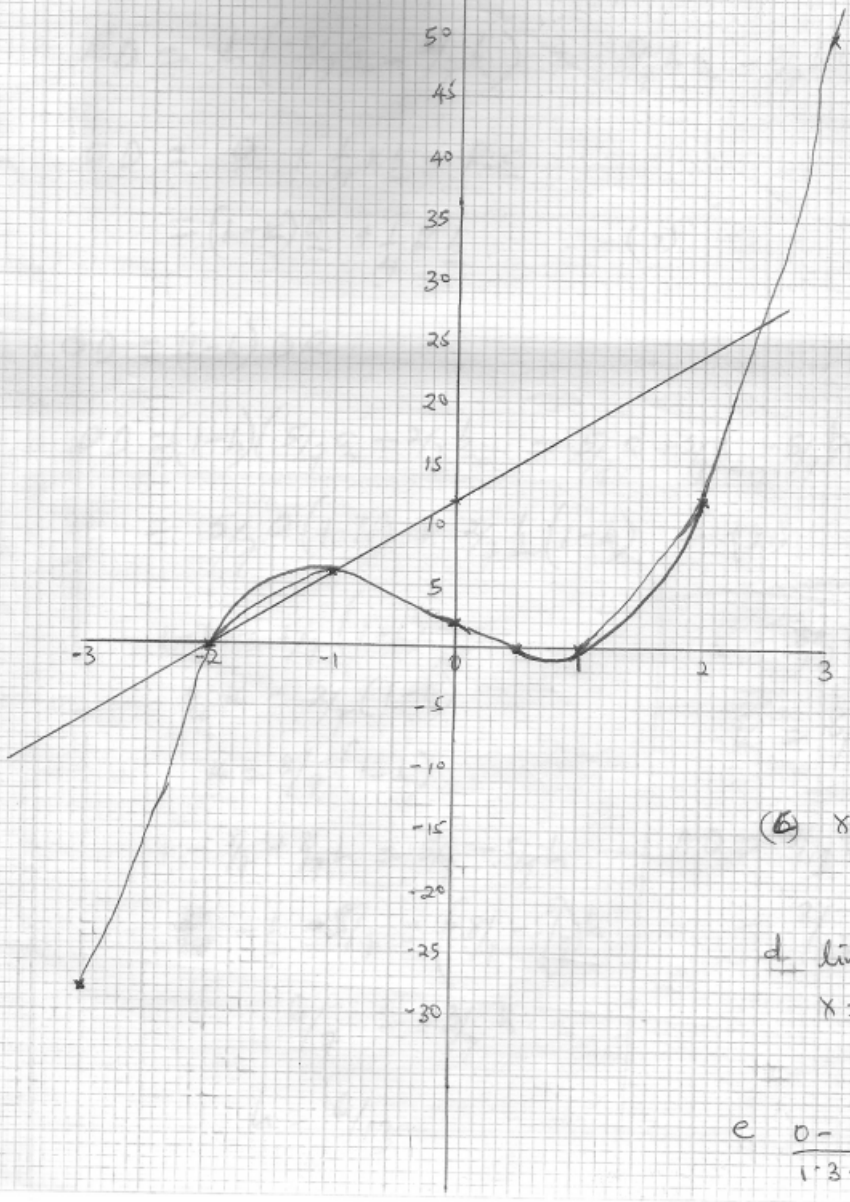


figure should be to scale given.

x	-3	-2	-1	0	1	2	3
$2x^3$	-54	-16	-2	0	2	16	54
x^2	9	4	1	0	1	4	9
$-5x$	15	10	5	0	-5	-10	-15
$+2$	2	2	2	2	2	2	2
y	-28	0	6	2	0	12	50

B_2 if all values ✓
B_1 any 4 values ✓

(b)



P_1
S_1
C_1

(c) $x = -2, 0.5, 1\frac{?}{-}0.1$
B_1 for all

d line $y = 6x + 12$ B_1
$x = -2, -1, 2.5\frac{?}{-}0.1$
B_1 for all.

e $\frac{0 - 2.0}{1.3 - 2.5} = 1.6667$ M_1 A_1
(allow own values correct)