

**MARKING SCHEME SQP
MATHEMATICS (STANDARD)
2020-21
CLASS X**

S.NO.	ANSWERS	MARKS
	PART – A , SECTION I	
1	LCM = 60 ,OR, After 6 place	1
2	n = 15	1
3	Zeroes are 0 , -2 OR $K \{ x^2 + x - 12 \}$	1
4	P (will not rain) = 0.25	1
5	n = 10 OR a = 28	1
6	Perimeter (ABC) = 35 cm	1
7	Ratio = 1:2	1
8	x = 17 OR mean = $24 / 11 = 2.18$	1
9	x = 1	1
10	$\angle B = 90^\circ$	1
11	0 OR 2	1
12	X = 11	1
13	DISTANCE = $2 \sqrt{ a^2 + b^2 }$	1
14	Height = 2.744 cm	1
15	Distance = 13 m	1
16	For correct proof	1
	SECTION II	
17(a)	(i) $5\sqrt{3}$ m	1
17(b)	(iii) 10 m	1
17 (c)	(ii) 3 sec	1
17 (d)	(ii) No	1
17(e)	(i) 10m	1
18(a)	(iii) $1/26$	1
18(b)	(i) $2/13$	1
18(c)	(i) $6/13$	1
18(d)	(iii) $6/13$	1
18(e)	(ii) $3/13$	1
19 (a)	(ii) 225 m^2	1
19(b)	(i) $\Phi \pi r^2 / 360^\circ$	1
19(c)	(i) 19.625 m^2	1
19(d)	(i) 58.875 m^2	1
19(e)	(iii) 7.85 m	1
20(a)	(ii) 62	1

20(b)	(ii) 12	1
20(c)	(i)55	1
20(d)	(i)40	1
20(e)	(iii)15	1
PART- B		
21	$9x^2 - 34x - 8 = 0$, $x = 4$, $-2/9$	1+1
22	Correct process & Ratio =2:9	1+1
23	Correct process & $x=6,y=3$	1+1
24	13 (7x11 +1) , correct reason OR $(2x3)^n$,correct reason	1+1
25	$P=-8$, other root = 2	1+1
26	Correct calculation , $n= 65$ OR Correct calculation, 13 th term=0	1+1
27	Correct assumption , calculation, proof	1+1+1
28	$X= -2$, $y= 5$, $m= -1$	1+1+1
29	Correct figure, process , proof	$\frac{1}{2} + 1\frac{1}{2} + 1$
30	Correct construction	3
31	$d=2$, $a=1$, Sum= n^2	1+1+1
32	Correct figure, distance= $50/\sqrt{3}$ m, height= $50/3$ m	1+1+1
33	Correct process & proof	2+1
34	Correct equations, calculation, answer = 18m , 12m	2+2+1
35	Correct formula, calculation, answer = 562500 m^2 OR TSA= 17.6cm^2	1+3+1
36	Statement , (given, To prove, construction, figure), proof	1+2+2