INDIAN SCHOOL MUSCAT

HALF YEARLY EXAMINATION

SEPTEMBER 2019

CLASS X

SET B

Marking Scheme – MATHEMATICS

Q.NO.	Answers	Marks (with split up)
1.	d) cos A	1
2.	c) 4	1
3.	b) 4cm	1
4.	c) a=3, b=1	1
5.	d) 4 m	1
6.	a)5 units	1
7.	b) Median	1
8.	d) 70°	1
9.	c) 25/4	1
10.	b) -3	1
11.	Same as Q No. 16 Set A	1
12.	Same as Q No. 12 Set A	1
13.	Same as Q No. 20 Set A	1
14.	Same as Q No. 14 Set A	1
15.	Same as Q No. 15 Set A	1
16.	Same as Q No. 11 Set A	1
17.	Same as Q No. 17 Set A	1
18.	Same as Q No. 18 Set A	1
19.	Same as Q No. 19 Set A	1
20.	Same as Q No. 13 Set A	1
21.	Same as Q No. 24 Set A	1+1
22.	Same as Q No. 21 Set A	½+1/2+1/2+1/2
23.	Same as Q No. 22 Set A	½+1/2+1/2+1/2
24.	X= 3, x =-1/2	½+1/2+1/2+1/2
25.	Same as Q No. 25 Set A	½+1/2+1/2+1/2
26.	A=299 d=-4; a_{10}= 263	½+1/2+1/2+1/2
27.	Same as Q No.34 Set A	2+1
28.	Same as Q No. 28 Set A	2+1
29.	Same as Q No. 29Set A	2+1

30.	$LHS = \dfrac{1+\sec A}{\sec A}$	1x3=3
	$= \dfrac{1+\frac{1}{\cos A}}{\frac{1}{\cos A}}$ $\left[\because \sec A = \dfrac{1}{\cos A}\right]$	
	$= \dfrac{\frac{\cos A + 1}{\cos A}}{\frac{1}{\cos A}}$	
	$= \dfrac{1+\cos A}{1}$	
	$= \dfrac{1+\cos A}{1} \times \dfrac{1-\cos A}{1-\cos A}$	
	$= \dfrac{1-\cos^2 A}{1-\cos A}$	
	$= \dfrac{\sin^2 A}{1-\cos A}$ $[\because\ 1-\cos^2 A = \sin^2 A]$	
	$= RHS$	
31.	Same as Q No. 31Set A	1+1+1
32.	Ratio= 5:1, y=-13/3	1+1+1
33.	Same as Q No. 33 Set A	1+1+1
34.	Same as Q No. 27 Set A	1+1+1
35.	Same as Q No. 40 Set A	1+1+1+1
36.	Same as Q No. 36 Set A	1+1+1+1
37.	Same as Q No. 37 Set A	1+1+1+1
38.	Same as Q No. 38 Set A	1+1+1+1
39.	$N^2+ 2n -168= 0$ Even no's are 12 and 14 or -12 and -14	1+1+1+1
40.	Same as Q No. 35 Set A	1+1+1+1