

**MARKING SCHEME**  
**S.A. 1 SET 2 – 2014**  
**MATHEMATICS-X**

**SECTION – A**

1. 3CM (1)
2. Modal Class =15-25 (1)
3.  $P=0$  (1)
4.  $K= -10/3$  (1)

**SECTION – B**

5.  $\sin A = \sin (90-B)$  (1)  
     $A = 90+B$  (1/2)  
     $A+B=90$  ( ½)
6. Question 10, set 1
7. Question 9, set 1
8. Same
9. Question 6, set 1
10. Question 7, set 1

**SECTION – C**

11. Proof (3)
12. Question 13, set1
13. Question 12, set1
14. Question 15, set1
15. Question 14, set1
16.  $\cos^2 20 + \sin^2 20 + \sin 48 \operatorname{cosec} 48 + \cos 40 \sec 40$  (2)  
     $1+1+1 =3$  (1)
17. Question 16 ,set1
18. Same
19. Same
20. Same

**SECTION – D**

21. Same
22. Same
23. Same

24. Same
25. Same
26. Same
27.  $\sin(105^\circ) = \sin(60+45)$  (1)
- $\frac{\sqrt{3}}{2\sqrt{2}} + \frac{1}{2\sqrt{2}}$  (2)
- $\frac{\sqrt{3}+1}{2\sqrt{2}}$  (1)
28. Table  
Median } (4)
29. Same
30. Same
31. Graph (4)