

# WANDOOR GANITHAM - S S L C UNIT TEST 2021

**E1.11B**

## STATISTICS – ANSWER KEY

Qn no.	Key	Score															
1	$\frac{20+22+24+26+28+30+32+34+36+38+40+42}{12} = \frac{372}{12} = 31$	1	1														
2	<p>a) <math display="block">\frac{15+39+30+42+27+33+24+18+36+21}{10} = \frac{285}{10} = 28.5</math></p> <p>b) 15 , 18 , 21 , 24 , 27 , 30 , 33 , 36 , 39 , 42</p> <p style="margin-left: 40px;"><b>Median</b> = <math display="block">\frac{27+30}{2} = \frac{57}{2} = 28.5</math></p>	1  1  1	3														
3	<p>a) <math display="block">\frac{35+31+34+33+36+32+30}{7} = \frac{231}{7} = 33</math></p> <p>b) 30 , 31 , 32 , 33 , 34 , 35 , 36</p> <p style="margin-left: 40px;"><b>Median</b> = 33</p>	1  1  1	3														
4	<table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th style="width: 50%;">Monthly income</th> <th style="width: 50%;">Number of households</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Up to 4500</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="text-align: center;">Up to 5500</td> <td style="text-align: center;">8</td> </tr> <tr> <td style="text-align: center;">Up to 6500</td> <td style="text-align: center;">17</td> </tr> <tr> <td style="text-align: center;">Up to 7500</td> <td style="text-align: center;">25</td> </tr> <tr> <td style="text-align: center;">Up to 8500</td> <td style="text-align: center;">31</td> </tr> <tr> <td style="text-align: center;">Up to 9500</td> <td style="text-align: center;">35</td> </tr> </tbody> </table> <p>a) 6500</p> <p>b) 18</p> <p>c) 7500</p>	Monthly income	Number of households	Up to 4500	3	Up to 5500	8	Up to 6500	17	Up to 7500	25	Up to 8500	31	Up to 9500	35	1          1  1  1	4
Monthly income	Number of households																
Up to 4500	3																
Up to 5500	8																
Up to 6500	17																
Up to 7500	25																
Up to 8500	31																
Up to 9500	35																

5	Daily wages	Number of workers	1	4
	Up to 650	5		
Up to 750	13			
Up to 850	23			
Up to 950	35			
Up to 1050	46			
Up to 1150	54			
Up to 1250	60			
<p>a) 850</p> <p>b) Half the sum of the daily wages of the 30<sup>h</sup> and 31<sup>th</sup> workers .</p> <p>ie , <math>\frac{x_{30} + x_{31}}{2}</math></p> <p>c) <math>\frac{950 + 950}{2} = \frac{1900}{2} = 950</math></p>			1	1
			1	