

IES GROUP OF INSTITUTION BHOPAL

SUBJECT: Maths

BRANCH: EX/CIVIL

SUB CODE:104

SEM : 2nd

SESSION : 2014-15

Assignment-1

1	Find standard deviation and coefficient of standard deviation of the following data: <table border="1" data-bbox="263 621 1261 800"><tr><td>Marks</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td></tr><tr><td>No. of students</td><td>3</td><td>6</td><td>9</td><td>13</td><td>8</td><td>18</td><td>4</td></tr></table>	Marks	6	7	8	9	10	11	12	No. of students	3	6	9	13	8	18	4		
Marks	6	7	8	9	10	11	12												
No. of students	3	6	9	13	8	18	4												
2	Find the quartile deviation and coefficient of quartile deviation of the following data given below: 10,19,28,53,40,35,18,37,42,54,29																		
3	Find the median of the following data: <table border="1" data-bbox="263 1014 1261 1234"><tr><td>Income in rs.</td><td>1-3</td><td>3-5</td><td>5-7</td><td>7-9</td><td>9-11</td><td>11-13</td><td>13-15</td><td>15-17</td></tr><tr><td>No. of workers</td><td>6</td><td>53</td><td>85</td><td>56</td><td>21</td><td>16</td><td>4</td><td>4</td></tr></table>	Income in rs.	1-3	3-5	5-7	7-9	9-11	11-13	13-15	15-17	No. of workers	6	53	85	56	21	16	4	4
Income in rs.	1-3	3-5	5-7	7-9	9-11	11-13	13-15	15-17											
No. of workers	6	53	85	56	21	16	4	4											
4	If $A = \begin{bmatrix} 1 & 0 \\ 1 & 1 \end{bmatrix}$, $B = \begin{bmatrix} 2 & 0 \\ 1 & 1 \end{bmatrix}$ and $C = \begin{bmatrix} -1 & 2 \\ 3 & 1 \end{bmatrix}$ the prove that $A(B+C) = AB + AC$																		
5	Find the inverse of the following $A = \begin{bmatrix} 1 & 1 & 1 \\ 1 & 2 & -3 \\ 2 & -1 & 3 \end{bmatrix}$																		