

**R. J. Tibrewal Commerce College, Vastrapur, Ahmedabad.**  
**Department of Statistics**  
**CE-302 B Advanced Statistics - VIII**

**Semester – 5**

**(Year – 2020-21)**

**Assignment 1:**

**Q.1 Discuss the small sample test for testing the equality of two population means.**

**Q.2 From a population of college students, 10 students were randomly selected. Their weekly pocket money was observed as: 120, 220, 310, 180, 250, 300, 425, 190, 320, 290.**

**Test whether the sample supports that on an average the students get Rs. 250 as pocket money.**

**Assignment 2:**

**Q.3 A typist in a company commits the following number of mistakes per page in typing 432 pages.**

<b>No. of mistakes per page</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>No. of pages</b>	<b>223</b>	<b>142</b>	<b>48</b>	<b>15</b>	<b>4</b>	<b>0</b>

**Does this information verify that the mistakes are distributed according to the Poisson Law?**

**Q.4 A survey of 400 families with 4 children each revealed following distribution.**

<b>No. of Boys:</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>No. of families:</b>	<b>16</b>	<b>89</b>	<b>145</b>	<b>118</b>	<b>32</b>

**Test whether the given data follows Binomial Distribution or not.**