**Business Statistics for Decision Making**

**June 2022 Examination**

**Q1. Solve the following questions in MS-EXCEL and write the interpretation.**

**(Note: You will have to take a snapshot with EXCEL Formula-bar and resultant-cell/answer)**

**The top-selling 'Amar' tire is rated 70,000 KM, which means nothing. The distance the tires can run until they wear out is a normally distributed random variable with a mean of 82,000 KMs and a standard deviation of 6,400 KMs.**

**1. What is the probability that an Amar-tire wears out before 70,000 KMs?**

**Ans 1.**

**Introduction**

The likelihood of an occurrence indicates how possibly it is to occur. Forecasts are commonly expressed as possibilities or integers. Do not forget a bowl of fruit with five gadgets of fruit - 3 bananas & 2 apples, for instance. As there are three bananas out of the five bits of fruits, if you only want to consume one sort of result and greens for lunch but don't be aware of what it's Its Half solved only

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**2. What is the probability that an Amar-tire lasts more than 100,000 KMs? –**

**ANS:**

**Introduction**

The sampling unit, or remote region, of a random phenomenon includes the whole set of viable outcomes. Chance refers back to the opportunity of an occasion taking place. The share of success effects extended through the wide variety of possibilities is the likelihood of a taking place. The idea of opportunity posits that each possible activity are reasonably likely. The potential or chances of an incident taking place are identified because of its chances being

**Q2. Here is the Agri-Data.**

**1. Mention the name of dependent and independent variables.**

**2. Write the regression model**

**3. Prepare the line of regression Y on X.**

**4. Calculate r2 (coefficient of determination) and interpret. Interpreted the byx.**

 **(10 Marks)**

**ANS:**

**Introduction**

Any attribute that truly can take on various quantities, including period, gender, warmth, or check consequences, is an issue. Researchers typically modify or quantify relationships among variables in experiments to study purpose-and-effect linkages. The cause is the output aspect. Its frequency is unpretentious via the other aspects of the investigation. The effect is the regression coefficient. Its worth is found with the aid of interdependent variable changes. In an exploratory

**Q3a. For the below Given Table, Write the variable Type (in the case of numeric write its type also). (Write variable type for columns 1 to 10)**



**(5 Marks)**

**ANS:**

**Introduction**

Classification and quantitative parameters are the two simple kinds of facts. A category model (also known as a single attribute) is a property that cannot be quantified. A variable is a measurable property that can take on some choices. Elements consist of stature, gender, salary, birthplace (country or nation), academic effects, and form of residence. After that, every

**Q3b. Find the Mean and median for the Total MSMEs and their types separately (columns no 2 to 5). Is the calculated mean is affected by large observation? If yes, then mention by which district?**

 **(5 Marks)**

**ANS:**

**Introduction**

Information sets imply (widespread) is designed by adding complete integers inside the accumulating and facts divided by using the number of possible values. On every occasion, a collection of records is organized from smallest to primary. The median is the crucial result. In a