**SESSION**

**JUL/AUG 2021**

**PROGRAMME**

**MASTER OF BUSINESS ADMINISTRATION (MBA)**

**SEMESTER**

**I**

**COURSE CODE & NAME**

**DMBA103-STATISTICS FOR MANAGEMENT**

**1. Mr. Vijay, a retired government servant, is considering investing his money in two proposals. He wants to choose the one that has higher average net present value and lower standard deviations. The relevant data are given below. Can you help him choosing the proposal?**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Proposal A** | **Net present value (NPV)** | | **Chance of the possible outcome of NPV** |  |
| **1559**  **5662**  **9175** | | **0.30**  **0.40**  **0.30** | |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Proposal B** | **Net present value (NPV)** | | **Chance of the possible outcome of NPV** |  |
| **-10050**  **5812**  **20584** | | **0.30**  **0.40**  **0.30** | |  |

**Answer:**

Proposal A

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| NPV | Probability | NPV\*Probability | NPV– 5485 = (B) | (B)(B)\* Probability |
| 1559 | .3 | 467.7 | -3926 | 4624042.8 |

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**Q2**

**A manufacturing firm produces steel pipes in three plants with daily production volumes of 500, 1000 and 2000 units respectively. According to past experience, it is known that the fraction of defectives output produced by the three plants are respectively 0.005, 0.008 and 0.010. If a pipe is selected from a day’s total production and found to be defective, find out (a) from which plant the pipe comes (b) what is the probability that it comes from first plant?**

**Answer:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Plants | Production(A) | Faulty Production(B) | (A)\*(B)= C | (C/30.5) 100 = D |
| 1 | 500 | .005 | 2.5 | 8.2% |

**Que3.Explain the following:**

**Ans a. Probability Sampling and Non-Probability Sampling**

Probability sampling provides a scientific technique of drawing samples from the population. The technique of drawing samples is according to the law in which each unit has a predetermined probability of being included in the sample.

The

**SET-II**

**4. A report says that 80% of India’s females aged 15-59 are not currently engaged in the workforce. A national agency has an opinion that this percentage may be even more. To validate its opinion, the agency did a survey of randomly chosen 1200 females of the age group 15-59 from the different parts of the country and found 228 females working. Do the figures of the survey help the agency in validation of its opinion?**

**Answer:**

The survey shows that around 19% of females are working that matches the expectation of 80% not working women in age of 15-59.

But this doesn't helps in real analysis that is the validation of 80% non-workingwomen.

The real problem here lies in the age group chosen as the 15-21 the most people

**Q5. What is regression analysis? Explain steps of performing regression analysis in detail?**

**The following data shows the yearly sales (in million Rs.) of A2Z- corporation for the last nine years. Develop a regression model.**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Year** | **2011** | **2012** | **2013** | **2014** | **2015** | **2016** | **2017** | **2018** | **2019** |
| **Sale** | **2.3** | **5.3** | **5.1** | **3.5** | **3.4** | **2.7** | **2.8** | **4.1** | **2.9** |

**Answer:**

Regression analysis mind set is most mathematically minded method is usually why people shy away from it. This technique is meant for those companies that need in-depth, granular, or quantitative knowledge of what might be impacting sales and how it can be changed in one direction or the other, as necessary.

The regression

**6. Four observers determine the moisture content of samples of a powder, each man taking a sample from each of six consignments. Their assessments are given below:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **observation** | **consignments** | | | | | |
| **1** | **2** | **3** | **4** | **5** | **6** |
| **1** | **9** | **10** | **9** | **10** | **11** | **11** |
| **2** | **12** | **11** | **9** | **11** | **10** | **10** |
| **3** | **11** | **10** | **10** | **12** | **11** | **10** |
| **4** | **12** | **11** | **11** | **14** | **12** | **10** |

**Discuss whether there is any significant difference between consignments. (Useful data: Ftab(5,15):2.96, Ftab(3,15):3.29)**

**Answer:**

Four observers determine the moisture content of samples of a powder, each man taking a sample from each of six consignments. Their assessments are