Problem statement for ANOVA

1. The following table gives the marks scored by three different classes who are trained by three different teachers.

|  |  |  |  |
| --- | --- | --- | --- |
| Teachers | Marks | | |
| Class A | Class B | Class C |
| Raja | 89 | 75 | 81 |
| Anita | 67 | 59 | 79 |
| James | 71 | 76 | 73 |

Is there any significant difference in the teaching method at the significance level of 5%?

2. The following table gives the weight of three different groups who have trained by three different techniques.

|  |  |  |  |
| --- | --- | --- | --- |
| Workouts | Weight(kg) | | |
| Group 1 | Group 2 | Group 3 |
| Aerobic | 60 | 72.5 | 69 |
| Non-Aerobic | 54.8 | 79.3 | 71 |
| weightlifting | 87 | 82 | 79 |

Is there any significant difference in the techniques used and the groups at significance level of 5%?

3. The following table gives the growth in three different areas which was provided with different fertilizers.

|  |  |  |  |
| --- | --- | --- | --- |
| Fertilizers | Growth % | | |
| Area A | Area B | Area C |
| I | 25 | 34 | 26 |
| II | 37 | 29 | 33 |
| III | 60 | 58 | 57 |

Is there any significant difference in the fertilizers used at significance level of 5%?

3. The following table gives the glucose level in three different patients who was provided with different dosages.

|  |  |  |  |
| --- | --- | --- | --- |
| Dosages | Glucose level | | |
| Patient A | Patient B | Patient C |
| Dosage 1 | 154 | 128 | 120 |
| Dosage 2 | 98 | 100 | 110 |
| Dosage 3 | 138 | 145 | 127 |
| Dosage 4 | 120 | 124 | 121 |

Discuss the difference between (1) Dosages (2) Glucose level

5. The following table gives the sales in three different groups who was followed the three different procedures.

|  |  |  |  |
| --- | --- | --- | --- |
| Procedure | Sales | | |
| Group 1 | Group 2 | Group 3 |
| A | 47 | 74 | 92 |
| B | 53 | 97 | 86 |
| C | 49 | 81 | 90 |

Is there any significant difference in the procedures followed at significance level of 5%?