**Q.P. CODE: 9572**

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

**Answer All The Questions**                                      **10 X 10 = 100 Marks**

1.   What are the characteristics of a good research question? Describe all four phases of Clinical trial.

2.   Prepare an ANOVA table and calculate the 'F' values from the following data. Clearly mention that the result is significant or not.

| X1 | X2 | X3 |
|----|----|----|
| 20 | 45 | 78 |
| 25 | 40 | 80 |
| 30 | 48 | 75 |
| 35 | 46 | 78 |
| 40 | 50 | 81 |

Note: Tabulated F value at 5% is 3.88 and at 10% is 6.93.

3.   Define a Clinical trial. Express the need for conducting Clinical trial in Unani medicine.

4.   Discuss the importance of a double-blind trial.

5.   What is the importance of using a standard control in a clinical study?

6.   What is Kruskall Wallis test?

7.   What is normal distribution?

8.   What is Standard Error? Mention its importance.

9.   Describe the importance of inclusion and exclusion criteria in research studies.

10.  Explain patient information sheet.

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