



PhD Coursework- Jan 2025 Batch

Research Methodology & Computer Application (PPD-101)

(Common for Ph.D. Scholars)

Assignment-4

Unit.6 Testing of Hypothesis, Unit.7 Introduction to MS Excel, Unit.8 Introduction to UGCInfonet, INFLIBNET & ERNET

- Q.1 What do you mean by hypothesis? Compare null and alternate hypothesis.
- Q.2 What is a hypothesis test? Why do we perform it?
- Q.3 Discuss different steps involved in hypothesis testing with examples.
- Q.4 Elaborate Type-I and Type-II errors in the hypothesis test.
- Q.5 Discuss various factors affecting hypothesis testing and necessary precautions during the hypothesis test.
- Q.6 Discuss various steps in test of significance.
- Q.7 What are the key features of MS Excel, and how is it used in different industries?
- Q.8 Explain the difference between a worksheet and a workbook in MS Excel.
- Q.9 How do you use the AutoFill feature in Excel? Provide examples of its applications.
- Q.10 What are the different types of data formats available in Excel, and when should each be used?
- Q.11 What is the purpose of the IF function in Excel? Explain with an example.
- Q.12 Describe the process of creating and formatting charts in MS Excel.
- Q.13 How does Conditional Formatting work in Excel? Provide practical use cases.
- Q.14 What are Excel Tables, and how do they improve data management?
- Q.15 Explain the concept of PivotTables and how they help in data analysis.
- Q.16 What is Power Query in Excel, and how can it be used to transform and clean data?
- Q.17 Write descriptive note and give suitable examples wherever required:
- (i) UGCInfonet
 - (ii) INFLIBNET
 - (iii) ERNET
 - (iv) SCOPUS indexing
 - (v) WOS indexing
 - (vi) TR indexing
 - (vii) SCI indexing
 - (viii) Arts & Humanities citation index
 - (ix) Social Science Citation index

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