

**SHIVAJI COLLEGE, UNIVERSITY OF DELHI**

**DEPARTMENT OF ECONOMICS**

**INTERNAL TEST (Academic Year 2023-24)**

Name of the Course : B.A.(P)

Semester: 2

Name of the Paper : Basic Statistics for Economics

Faculty Name : Nikita Gupta

Duration :

Maximum Marks: 15

Date of Assignment Submission: 01.05.2024

Form a group of 3 students and make an assignment showing the results of hypothesis testing.

- i) Pick the **data** on any quantitative random variable from any one of the following sources at the district/city/state/country level for **atleast 30** units:

World Bank

Reserve Bank of India

Open Government Data Platform India

International Monetary Fund

Ministry of Statistics & Programme Implementation

- ii) Find the mean and standard deviation of the complete data.  
iii) Make a histogram of the variable in the data.  
iv) Choose a sample of **20 units**. Find sample mean and standard deviation.  
v) Conduct hypothesis testing about the population mean using:  
    a) One-tailed test  
    b) Two-tailed test  
vi) Interpret your results.  
vii) Clearly state the assumptions you have taken while conducting hypothesis test.

*Nikita*

**Faculty Signature: Nikita Gupta**