APPENDIX - V

HYPOTHESES TEST DETAILS
Q. 20. Do you think, the politics of the state is in the right direction to solve these problems?

Yes  -  7.01%
No   -  92.99%

H₀  : Politics of the state is in the right direction to solve these problems.
H₁  : Politics of the state may or may not, i.e., P = 0.5
X   : No. of persons say yes = 19.
p   : Proportion of persons said yes = \frac{19}{271} = 0.07

Since, the sample size is large, therefore, the test statistics is:
\[ Z = \frac{p - P}{\sqrt{PQ/n}} = \frac{0.07 - 0.5}{\sqrt{0.5 \times 0.5 / 271}} \]
\[ = \frac{0.43}{\sqrt{0.25 / 271}} \]
\[ = \frac{0.43}{0.0304} = 14.1447 \]

Since, Table value of Z = 1.645 at 5% level of significance and is less than computed value of Z = 14.1447 is significant, hence we may reject null hypothesis.

Thus: Politics of the state is may or may not in the right direction to solve these problems.

Q. 25. Do you agree, with a view that, Regional Disparity is a major political issue in Karnataka today?

Yes  :  97.05%
No   :  2.95%
Under, $H_0 = P = 0.5$
\[ Q = 1 - P = 0.5 \]
\[ n = 271 \]

$p = \text{proportion say yes} = 0.98.99$

\[ Z = \frac{p - P}{\sqrt{PQ/n}} \]

\[ = \frac{0.9852 - 0.5}{0.304} \]

\[ = 32.5625 \]

At 1% level, Table $Z = 2.58$, which is smaller than calculated $Z = 32.5625$. Therefore, $H_0$ is rejected and $H_1$ is accepted.

Q. 24. As an Elite, do you agree that Karnataka is experiencing Regional Disparity?

Yes : 98.52%
No : 1.48%

$H_0 = \text{Being an Elite, may nor may not agree.}$

$H_1 = \text{May agree.}$

Under, $H_0 = P = 0.5$
and $Q = 1 - P = 0.5$

$p = \text{proportion of elites agree} = 0.9852.$

\[ Z = \frac{p - P}{\sqrt{PQ/n}} = \frac{0.9852 - 0.5}{\sqrt{0.5 \times 0.57271}} \]

\[ = \frac{0.4852}{0.0304} \]

\[ = 15.9605 \]
Table value of \( Z \) at 1% level is significant. Hence, \( H_0 \) is rejected and \( H_1 \) is accepted.

Q. 32. Do you agree with a view that historically North Karnataka has always experienced a step-motherly treatment?

- Yes : 98%
- No : 2%

\( H_0 = \) May or may not agree.
\( H_1 = \) Agree

Under, \( H_0 = P = 0.5 \)
\[ Q = 1 - P = 0.5 \]
\[ n = 271 \]
\( p = \) proportion agree = 0.98.

\[ Z = \frac{p - P}{\sqrt{PQ/n}} \]
\[ = \frac{0.98 - 0.5}{\sqrt{0.5 \times 0.5/n}} \]
\[ = \frac{0.48}{0.0304} = 15.7895 \]

Table \( Z \) at 1% level = 2.58, smaller than the calculated \( Z = 15.7895 \). Hence, \( H_0 \) is rejected and \( H_1 \) is accepted.