CHAPTER IV

ANALYSIS OF DATA AND RESULTS OF THE STUDY

As explained in the foregoing chapter, data on extroversion, neuroticism, psychoticism and competition anxiety was collected through the administration of respective tests and inventories to five hundred cricket and other team game players on India out of which two fifty cricket and two fifty other team game players.

There are at least two level at which data are categorized, presented and analysed statistically in this study. At level one, the data pertaining to cricket player (250) and other team game players (250) has been discussed; at level two, personality trait and competition anxiety has been compared cricket and other team game players.

Mean Score and Standard Deviations of Cricket and Other Team Game Players of India on Extroversion Variable

Mean scores and standard deviations of the two groups on Extroversion variable are presented in Table – 2.
As shown in Table – 2 the mean score standard deviation of cricket player in extroversion is 11.74, 1.6 and other team game players score is 10.77, 2.15 respectively.

**Comparison of Extroversion of Cricket and Other Team Game Players**

‘t’ test of Extroversion is given in Table-3 and graphically portrayed in Figure1.
Fig.1: Comparison of Extroversion of Cricket and Other Team Game Players

Table-3

Significance of Difference of Mean in Extroversion on Cricket and Other Team Game Players

<table>
<thead>
<tr>
<th>Group</th>
<th>Mean</th>
<th>Mean Difference</th>
<th>SEM</th>
<th>T value</th>
<th>Significance level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cricket Players</td>
<td>11.74</td>
<td>0.97</td>
<td>0.136</td>
<td>7.11</td>
<td>0.05</td>
</tr>
<tr>
<td>Other Team Game Players</td>
<td>10.77</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Significant at .05 level

Tab t.0.5 (2, 448) = 1.645

It is observed from the Table-3 that means index score has increase by 0.97 after the test. Since calculated ‘t’ < Tabulated ‘t’ (7.11>1.645). The result indicated that significance difference between cricket and other team game players in the extroversion level. It is evident that cricket and other team game players in extroversion test differed significantly, as the obtained t-value of 7.11 is more than the tabulated Value t 0.05 (2, 448) = 1.645.

Mean Score and Standard Deviations of Cricket and Other Team Game Players of India on Neuroticism Variable

Mean scores and standard deviations of the two groups on Neuroticism variable are presented in Table – 4.
As shown in Table – 4 the mean score standard deviation of cricket player in neuroticism is 10.648, 1.44 and other team game players score is 9.848, 1.89 respectively.

**Comparison of Neuroticism of Cricket and Other Team Game Players**

‘t’ test of Neuroticism is given in Table - 5 and graphically portrayed in Figure 2.
Fig.2: Comparison of Neuroticism of Cricket and Other Team Game Players.
Table-5

**Significance of Difference of Mean in Neuroticism on Cricket and Other Team Game Players**

<table>
<thead>
<tr>
<th>Group</th>
<th>Mean</th>
<th>Mean Difference</th>
<th>SEM</th>
<th>T value</th>
<th>Significance level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cricket Players</td>
<td>10.648</td>
<td>0.8</td>
<td>0.14</td>
<td>5.71</td>
<td>0.05</td>
</tr>
<tr>
<td>Other Team Game Players</td>
<td>9.848</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Significant at .05 level

Tab t.0.5 (2, 448) = 1.645.

It is observed from the Table-5 that means index score has increase by 0.8 after the test. Since calculated ‘t’ < Tabulated ‘t’ (5.71>1.645). The result indicated that significance difference between cricket and other team game players in the neuroticism level. It is evident that cricket and other team game players in neuroticism test differed significantly, as the obtained t-value of 5.71 is more than the tabulated Value t 0.05 (2, 448) = 1.645.

**Mean Score and Standard Deviations of Cricket and Other Team Game Players of India on Psychoticism Variable**

Mean scores and standard deviations of the two groups on Psychoticism variable are presented in Table – 6.
### Table - 6

<table>
<thead>
<tr>
<th>Variable</th>
<th>Cricket Players</th>
<th>Other Team Game Players</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mean</td>
<td>S.D.</td>
</tr>
<tr>
<td>Psychoticism</td>
<td>10.86</td>
<td>1.61</td>
</tr>
</tbody>
</table>

As shown in Table – 6 the mean score standard deviation of cricket player in psychoticism is 10.86, 1.61 and other team game players score is 9.28, 2.38 respectively.

**Comparison of Psychoticism of Cricket and Other Team Game Players**

‘t’ test of Psychoticism is given in Table-7 and graphically portrayed in Figure 3.

Fig.3: Comparison of Psychoticism of Cricket and Other Team Game Players.
Significance of Difference of Mean in Psychoticism on Cricket and Other Team Game Players

<table>
<thead>
<tr>
<th>Group</th>
<th>Mean</th>
<th>Mean Difference</th>
<th>SEM</th>
<th>T value</th>
<th>Significance level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cricket Players</td>
<td>10.86</td>
<td>1.58</td>
<td>0.032</td>
<td>49.37</td>
<td>0.05</td>
</tr>
<tr>
<td>Other Team Game Players</td>
<td>9.28</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Significant at .05 level

Tab \( t_{0.5} (2, 448) = 1.645 \)

It is observed from the Table-7 that means index score has increase by 1.58 after the test. Since calculated ‘t’ < Tabulated ‘t’ \( (49.37 > 1.645) \). The result indicated that significance difference between cricket and other team game players in the Psychoticism level. It is evident that cricket and other team game players in Psychoticism test differed significantly, as the obtained t-value of 49.37 is much more than the tabulated Value \( t_{0.05} (2, 448) = 1.645 \).

Mean Score and Standard Deviations of Cricket and Other Team Game Players of India on Sports Competition Anxiety Variable

Mean scores and standard deviations of the two groups on Sports Competition Anxiety variable are presented in Table – 8.
As shown in Table – 8 the mean score standard deviation of cricket player in sport competition anxiety is 18.51, 4.81 and other team game players score is 20.12, 6.38 respectively.

**Comparison of Sports Competition Anxiety of Cricket and Other Team Game Players**

‘t’ test of Sports Competition Anxiety is given in Table-9 and graphically portrayed in Figure 4

![Fig.4: Comparison of Sports Competition Anxiety of Cricket and Other Team Game Players.](image-url)
Table 9

Significance of Difference of Mean in Sports Competition Anxiety on Cricket and Other Team Game Players

<table>
<thead>
<tr>
<th>Group</th>
<th>Mean</th>
<th>Mean Difference</th>
<th>SEM</th>
<th>T value</th>
<th>Significance level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cricket Players</td>
<td>20.12</td>
<td>1.16</td>
<td>0.5</td>
<td>3.22</td>
<td>0.05</td>
</tr>
<tr>
<td>Other Team Game Players</td>
<td>18.51</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Significant at .05 level

Tab t.0.5 (2, 448) = 1.645

It is observed from the Table-9 that means index score has increase by 1.16 after the test. Since calculated ‘t’ < Tabulated ‘t’ (3.22 > 1.645). The result indicated that significance difference between cricket and other team game players in the Sports Competition Anxiety level. It is evident that cricket and other team game players in Sports Competition Anxiety test differed significantly, as the obtained t-value of 3.22 is much more than the tabulated Value t 0.05 (2, 448) = 1.645.
**Discussion of Findings:**

The present study deals with the comparison of personality traits between cricket and other sports players with respect to Extraversion, Neuroticism, Psychoticism and Sports Competition Anxiety. The data was collected with the help of Sports Competition Anxiety, Eysenck personality inventory. This inventory provides three psychological dimensions viz; Extraversion, Neuroticism, Psychoticism.

From the analysis of data it has been found that there is significant difference between cricket and other team game players in the extroversion level. It is evident that cricket and other team game players in extroversion test differed significantly, as the obtained $t$-value 7.11 is much more than the tabulated value $t_{0.05}(2, 448) = 1.645$. It is obvious that there is significant difference between cricket and other team game players on extroversion level at 0.05 level as the mean difference 11.744 and 10.776. Hence the null hypothesis is rejected between these groups at extroversion level.

The Cricket players have high extroversion in comparison with other team game players because the reason may be cricket game is popular in world and other game not much popular.
From the analysis of data it has been found that there is significant difference between cricket and other team game players in the neuroticism level. It is evident that cricket and other team game players in neuroticism test differed significantly, as the obtained t-value 5.71 is much more than the tabulated value $t_{0.05} (2, 448) = 1.645$. It is obvious that there is significant difference between cricket and other team game players on extroversion level at 0.05 level as the mean difference 10.648 and 9.848. Hence the null hypothesis is rejected between these groups at neuroticism level.

From the analysis of data it has been found that there is significant difference between cricket and other team game players in the psychoticism level. It is evident that cricket and other team game players in psychoticism test differed significantly, as the obtained t-value 49.37 is much more than the tabulated value $t_{0.05} (2, 448) = 1.645$. It is obvious that there is significant difference between cricket and other team game players on psychoticism level at 0.05 level as the mean difference 10.86 and 9.28. Hence the null hypothesis is rejected between these groups at psychoticism level.

From the analysis of data it has been found that there is significant difference between cricket and other team game players in the sport competition anxiety level. It is evident that cricket and other team game players in sport competition anxiety test differed significantly, as the obtained t-value 49.37 is
much more than the tabulated value $t_{0.05} (2, 448) = 1.645$. It is obvious that there is significant difference between cricket and other team game players on sport competition anxiety level at 0.05 level as the mean difference 10.86 and 9.28. Hence the null hypothesis is rejected between these groups at sport competition anxiety level.