## LIST OF TABLES

<table>
<thead>
<tr>
<th>TABLE NO.</th>
<th>HEADING</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>Sample for the Selection of the Type of Test Items</td>
<td>35</td>
</tr>
<tr>
<td>2.2</td>
<td>Sample for Pooling the Source Material for Test Items</td>
<td>36</td>
</tr>
<tr>
<td>2.3</td>
<td>Sample for Item Analysis Study</td>
<td>37</td>
</tr>
<tr>
<td>2.4</td>
<td>Sample for Reliability and Validity Studies</td>
<td>38</td>
</tr>
<tr>
<td>2.5</td>
<td>Sample for Testing the Hypotheses</td>
<td>39</td>
</tr>
<tr>
<td>2.6</td>
<td>Sample for Testing the Efficiency of the Multiple Regression Equation</td>
<td>40</td>
</tr>
<tr>
<td>2.7</td>
<td>Coding System for Different Variables Used in this Study</td>
<td>46</td>
</tr>
<tr>
<td>4.1</td>
<td>M and SD for itemwise Scores on the Dimension of Seeing Problems (SP), (N=100)</td>
<td>72</td>
</tr>
<tr>
<td>4.2</td>
<td>Item Discrimination for the Dimension of Seeing Problems (SP)</td>
<td>72</td>
</tr>
<tr>
<td>4.3</td>
<td>M and SD for itemwise Scores on the Dimension of Unusual Uses Fluency (UF), (N=100)</td>
<td>75</td>
</tr>
<tr>
<td>4.4</td>
<td>Item Discrimination for the Dimension of Unusual Uses Fluency (UF)</td>
<td>76</td>
</tr>
<tr>
<td>4.5</td>
<td>M and SD for itemwise Scores on the Dimension of Unusual Uses Flexibility (UX), (N=100)</td>
<td>77</td>
</tr>
<tr>
<td>4.6</td>
<td>Item Discrimination for the Dimension of Unusual Uses Flexibility (UX)</td>
<td>77</td>
</tr>
<tr>
<td>4.7</td>
<td>M and SD for itemwise Scores on the Dimension of Unusual Uses Originality (UO), (N=100)</td>
<td>77</td>
</tr>
<tr>
<td>4.8</td>
<td>Item Discrimination for the Dimension of Unusual Uses Originality (UO)</td>
<td>77</td>
</tr>
</tbody>
</table>
4.9 M and SD for Itemwise Scores on the Dimension of Unusual Uses Creativity (UC), (N=100) 78
4.10 Item Discrimination for the Dimension of Unusual Uses Creativity (UC) 78
4.11 M and SD for Itemwise Scores on the Dimension of Consequences Fluency (CF), (N=100) 81
4.12 Item Discrimination for the Dimension of Consequences Fluency (CF) 81
4.13 M and SD for Itemwise Scores on the Dimension of Consequences Originality (CO), (N=100) 82
4.14 Item Discrimination for the Dimension of Consequences Originality (CO) 82
4.15 M and SD for Itemwise Scores on the Dimension of Consequences Creativity (CC), (N=100) 83
4.16 Item Discrimination for the Dimension of Consequences Creativity (CC) 83
4.17 M and SD for the Scores on the Dimension of Inquisitiveness (INQ), (N=100) 85
4.18 Discrimination Index for Dimension of Inquisitiveness (INQ) 86
4.19 M and SD for the Scores on the Dimension of Persistency (PER), (N=100) 87
4.20 Discrimination Index for the Dimension of Persistency (PER) 87
4.21 M and SD for the Scores on the Dimensions Belonging to the Blocks Test of Creativity, (N=100) 88
4.22 Discrimination Index for the Dimensions Belonging to the Blocks Test of Creativity 89
5.1 Test-retest Reliability Coefficient and Significance of Difference Between Means of the Scores on the Tests of Creativity for First and Second Administration

5.2 Split-half Reliability Coefficients of the Three Tests of Creativity Having more than one Item

5.3 Concurrent Validity of the Tests of Creativity

5.4 Correlation Matrix (9x9) with Guessed Communalities

5.5 Frequency Distributions, Ms, SDs of the Elements of Correlation and Residual Matrices (9x9)

5.6 Original Principal-Axes and Varimax Factor Matrices

6.1 a Original and Percent Frequency Distributions Along with the Measures of M, Mdn, SD, Sk and Ku based on the Criterion (CRB) Scores of Urban Girls, Rural Girls, Urban Boys and Rural Boys

6.1 b Original and Percent Frequency Distributions Along with the Measures of M, Mdn, SD, Sk and Ku Based on the Criterion (CRB) Scores of Grades IX, X and XI and the Total Sample

6.2 a Original and Percent Frequency Distributions Along with the Measures of M, Mdn, SD, Sk and Ku Based on the Inquisitiveness (IMQ) Scores of Urban Girls, Rural Girls, Urban Boys and Rural Boys

6.2 b Original and Percent Frequency Distributions Along with the Measures of M, Mdn, SD, Sk and Ku Based on the Inquisitiveness (IMQ) Scores of Grades IX, X and XI and the Total Sample
<table>
<thead>
<tr>
<th>6.3 a</th>
<th>Original and Percent Frequency Distributions Along with the Measures of $M$, $Mdn$, $SD$, $Sk$ and $Ku$ Based on the Persistency (PER) Scores of Urban Girls, Rural Girls, Urban Boys and Rural Boys</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.3 b</td>
<td>Original and Percent Frequency Distributions Along with the Measures of $M$, $Mdn$, $SD$, $Sk$ and $Ku$ Based on the Persistency (PER) Scores of Grades IX, X and XI and the Total Sample</td>
</tr>
<tr>
<td>6.4 a</td>
<td>Original and Percent Frequency Distributions Along with the Measures of $M$, $Mdn$, $SD$, $Sk$ and $Ku$ Based on the Seeing Problems (SP) Scores of Urban Girls, Rural Girls, Urban Boys and Rural Boys</td>
</tr>
<tr>
<td>6.4 b</td>
<td>Original and Percent Frequency Distributions Along with the Measures of $M$, $Mdn$, $SD$, $Sk$ and $Ku$ Based on the Seeing Problems (SP) Scores of Grades IX, X and XI and the Total Sample</td>
</tr>
<tr>
<td>6.5 a</td>
<td>Original and Percent Frequency Distributions Along with the Measures of $M$, $Mdn$, $SD$, $Sk$ and $Ku$ Based on the Consequences Fluency (CF) Scores of Urban Girls, Rural Girls, Urban Boys and Rural Boys</td>
</tr>
<tr>
<td>6.5 b</td>
<td>Original and Percent Frequency Distributions Along with the Measures of $M$, $Mdn$, $SD$, $Sk$ and $Ku$ Based on the Consequences Fluency (CF) Scores of Grades IX, X and XI and the Total Sample</td>
</tr>
<tr>
<td>6.6 a</td>
<td>Original and Percent Frequency Distributions Along with the Measures of $M$, $Mdn$, $SD$, $Sk$ and $Ku$ Based on the Consequences Originality (CO) Scores of Urban Girls, Rural Girls, Urban Boys and Rural Boys</td>
</tr>
<tr>
<td>6.6 b</td>
<td>Original and Percent Frequency Distributions Along with the Measures of $M$, $Mdn$, $SD$, $Sk$ and $Ku$ Based on the Consequences Originality (CO) Scores of Grades IX, X and XI and the Total Sample</td>
</tr>
</tbody>
</table>
Original and Percent Frequency Distributions Along with the Measures of $\bar{x}$, $Mdn$, $SD$, $Sk$ and $Ku$ Based on the Consequences Creativity (CC) Scores of Urban Girls, Rural Girls, Urban Boys and Rural Boys

Original and Percent Frequency Distributions Along with the Measures of $\bar{x}$, $Mdn$, $SD$, $Sk$ and $Ku$ Based on the Consequences Creativity (CC) Scores of Grades IX, X and XI and the Total Sample

Original and Percent Frequency Distributions Along with the Measures of $\bar{x}$, $Mdn$, $SD$, $Sk$ and $Ku$ Based on the Unusual Uses Fluency (UF) Scores of Urban Girls, Rural Girls, Urban Boys and Rural Boys

Original and Percent Frequency Distributions Along with the Measures of $\bar{x}$, $Mdn$, $SD$, $Sk$ and $Ku$ Based on the Unusual Uses Fluency (UF) Scores of Grades IX, X and XI and the Total Sample

Original and Percent Frequency Distributions Along with the Measures of $\bar{x}$, $Mdn$, $SD$, $Sk$ and $Ku$ Based on the Unusual Uses Flexibility (UF) Scores of Urban Girls, Rural Girls, Urban Boys and Rural Boys

Original and Percent Frequency Distributions Along with the Measures of $\bar{x}$, $Mdn$, $SD$, $Sk$ and $Ku$ Based on the Unusual Uses Flexibility (UF) Scores of Grades IX, X and XI and the Total Sample

Original and Percent Frequency Distributions Along with the Measures of $\bar{x}$, $Mdn$, $SD$, $Sk$ and $Ku$ Based on the Unusual Uses Originality (UO) Scores of Urban Girls, Rural Girls, Urban Boys and Rural Boys

Original and Percent Frequency Distributions Along with the Measures of $\bar{x}$, $Mdn$, $SD$, $Sk$ and $Ku$ Based on the Unusual Uses Originality (UO) Scores of Grades IX, X and XI and the Total Sample
Original and Percent Frequency Distributions Along with the Measures of M, Mdn, SD, Sk and Ku Based on the Unusual Uses Creativity (UC) Scores of Urban Girls, Rural Girls, Urban Boys and Rural Boys

Original and Percent Frequency Distributions Along with the Measures of M, Mdn, SD, Sk and Ku Based on the Unusual Uses Creativity (UC) Scores of Grades IX, X and XI and the Total Sample

Original and Percent Frequency Distributions Along with the Measures of M, Mdn, SD, Sk and Ku Based on the Blocks Fluency (BF) Scores of Urban Girls, Rural Girls, Urban Boys and Rural Boys

Original and Percent Frequency Distributions Along with the Measures of M, Mdn, SD, Sk and Ku Based on the Blocks Fluency (BF) Scores of Grades IX, X and XI and the Total Sample

Original and Percent Frequency Distributions Along with the Measures of M, Mdn, SD, Sk and Ku Based on the Blocks Flexibility (BX) Scores of Urban Girls, Rural Girls, Urban Boys and Rural Boys

Original and Percent Frequency Distributions Along with the Measures of M, Mdn, SD, Sk and Ku Based on the Blocks Flexibility (BX) Scores of Grades IX, X and XI and the Total Sample

Original and Percent Frequency Distributions Along with the Measures of M, Mdn, SD, Sk and Ku Based on the Blocks Originality (BO) Scores of Grades IX, X and XI and the Total Sample

Original and Percent Frequency Distributions Along with the Measures of M, Mdn, SD, Sk and Ku Based on the Blocks Originality (BO) Scores of Urban Girls, Rural Girls, Urban Boys and Rural Boys
6.15 a Original and Percent Frequency Distributions Along with the Measures of M, Mdn, SD, Sk and Ku Based on the Blocks Creativity (BC) Scores of Urban Girls, Rural Girls, Urban Boys and Rural Boys

6.15 b Original and Percent Frequency Distributions Along with the Measures of M, Mdn, SD, Sk and Ku Based on the Blocks Creativity (BC) Scores of Grades IX, X and XI and the Total Sample

6.16 a Original and Percent Frequency Distributions Along with the Measures of M, Mdn, SD, Sk and Ku Based on the Intelligence Nonverbal (NV) Scores of Urban Girls, Rural Girls, Urban Boys and Rural Boys

6.16 b Original and Percent Frequency Distributions Along with the Measures of M, Mdn, SD, Sk and Ku Based on the Intelligence Nonverbal (NV) Scores of Grades IX, X and XI and the Total Sample

6.17 a Original and Percent Frequency Distributions Along with the Measures of M, Mdn, SD, Sk and Ku Based on the Intelligence Verbal (V) Scores of Urban Girls, Rural Girls, Urban Boys and Rural Boys

6.17 b Original and Percent Frequency Distributions Along with the Measures of M, Mdn, SD, Sk and Ku Based on the Intelligence Verbal (V) Scores of Grades IX, X and XI and the Total Sample

6.18 a Original and Percent Frequency Distributions Along with the Measures of M, Mdn, SD, Sk and Ku Based on the Age (AGE) Scores of Urban Girls, Rural Girls, Urban Boys and Rural Boys

6.18 b Original and Percent Frequency Distributions Along with the Measures of M, Mdn, SD, Sk and Ku Based on the Age (AGE) Scores of Grades IX, X and XI and the Total Sample
6.19 a Original and Percent Frequency Distributions Along with the Measures of \( M, \text{ Mdn, } SD, \text{ Sk and Ku} \) Based on the Achievement (ACH) Scores of Urban Girls, Rural Girls, Urban Boys and Rural Boys

6.19 b Original and Percent Frequency Distributions Along with the Measures of \( M, \text{ Mdn, } SD, \text{ Sk and Ku} \) Based on the Achievement (ACH) Scores of Grades IX, X and XI and the Total Sample

6.20 a Original and Percent Frequency Distributions Along with the Measures of \( M, \text{ Mdn, } SD, \text{ Sk and Ku} \) Based on the Creativity (CX-21) Scores of Urban Girls, Rural Girls, Urban Boys and Rural Boys

6.20 b Original and Percent Frequency Distributions Along with the Measures of \( M, \text{ Mdn, } SD, \text{ Sk and Ku} \) Based on the Creativity (CX-21) Scores of Grades IX, X and XI and the Total Sample

7.1 Chi-square Test of the Normal Distribution Hypothesis Applied to the Scores of Creativity (N=600)

7.2 Assignment of Cases in 2x2x2x3 Design

7.3 Bartlett’s Test of Homogeneity of Variances (Based on the Scores of Creativity in Table 7.2)

7.4 Summary of Analysis of Variance (2x2x3x3) Design

8.1 Scatterdiagram for Nonverbal Intelligence and Creativity along with Row and Column Means

8.2 Eta Coefficient for the Regression of Creativity Scores on Nonverbal Intelligence and F-test of Linearity

8.3 Eta Coefficient for the Regression of Nonverbal Intelligence Scores on Creativity and F-test of Linearity
8.4 Scattered diagram for Verbal Intelligence and Creativity along with Row and Column Means

8.5 Eta Coefficient for the Regression of Creativity Scores of Verbal Intelligence and F-test of Linearity

8.6 Eta Coefficient for the Regression of Verbal Scores on Creativity and F-test of Linearity

8.7 Product-moment Correlation Between Creativity and Nonverbal Intelligence and Creativity and Verbal Intelligence for Different Types of Subgroups

8.8 Correlation matrix (16x16), (N = 600)

8.9 First Residual Matrix (16x16), (N = 600)

8.10 Second Residual Matrix (16x16), (N = 600)

8.11 Third Residual Matrix (16x16), (N = 600)

8.12 Fourth Residual Matrix (16x16), (N = 600)

8.13 Fifth Residual Matrix (16x16), (N = 600)

8.14 Sixth Residual Matrix (16x16), (N = 600)

8.15 Frequency Distributions of Correlation and Five Residual Matrices (16x16)

8.16 Original Principal Component Factor Matrix (16x6)

8.17 Rotated Varimax Factor Matrix (16x6)

8.17 a Varimax Factor I

8.17 b Varimax Factor II

8.17 c Varimax Factor III

8.17 d Varimax Factor IV

8.17 e Varimax Factor V

8.17 f Varimax Factor VI
9.1 Significance of Difference Between Means of Creativity and its Subscores for Total Girls and Total Boys 227

9.2 Significance of Difference Between Means of Creativity and its Subscores for Urban Girls and Urban Boys 228

9.3 Significance of Difference Between Means of Creativity and its Subscores for Rural Girls and Rural Boys 229

9.4 Significance of Difference Between Means of Creativity and its Subscores for Total Urban and Total Rural Students 230

9.5 Significance of Difference Between Means of Creativity and its Subscores for Urban Girls and Rural Girls 231

9.6 Significance of Difference Between Means of Creativity and its Subscores for Urban Boys and Rural Boys 232

9.7 Significance of Difference Between Means of Creativity and its Subscores for Grades IX and X 234

9.8 Significance of Difference Between Means of Creativity and its Subscores for Grades IX and XI 235

9.9 Significance of Difference Between Means of Creativity and its Subscores for Grades X and XI 236

9.10 Developmental Trends of Creativity in the Context of Intelligence, Achievement and Age at Different Grade Levels 237

10.1 Chi-square Test of the Normal Distribution Hypothesis Applied to the Scores of Achievement, (N=600) 238

10.2 Assignment of Cases in 2x2x2x3 Design 239

10.3 Bartlett's Test of Homogeneity of Variances (Based on the Scores of Achievement in Table 10.2) 240

10.4 Summary of Analysis of Variance (2x2x2x3) Design 241
10.5 Assignment of Cases in 2x2x3x3 Design 263
10.6 Bartlett's Test of Homogeneity of Variances (Based on the Scores of Achievement in Table 10.5) 264
10.7 Summary of Analysis of Variance (2x2x3x3) Design 265
10.8 Significance of Difference Between Means of Achievement Scores of Groups Due to Sex, Residence and Grade 268
10.9 M, SD and t-ratio indicating Significance of Difference Between Means of Creativity (CY-21) Scores of Four-Groups 272
10.10 M, SD and t-ratio indicating Significance of Difference Between Means of Verbal Intelligence Scores of Four-Groups 273
10.11 M, SD and t-ratio indicating Significance of Difference Between Means of Achievement Scores of Four-Groups 273
10.12 M, SD and t-ratio indicating significance of difference between Mean Achievement Scores of Nine-Groups Formed on the Basis of Creativity and Verbal Intelligence 274
10.13 Product-Moment Correlations Between Creativity and Achievement, and Intelligence and Achievement for the Total Sample 279
10.14 Product-Moment Correlations Between Creativity and Achievement and Intelligence and Achievement for Different Subgroups 280
10.15 Product-Moment Correlations Between Achievement and Different Subscores of Creativity for the Total Sample, (N=600) 281
10.16 Ms, SDS, Intercorrelations of Predictor and Criterion Variables along with the Multiple Regression Equation 285
10.17 Significance of Difference Between Observed and Predicted Mean Scores of Creativity (CY-21) 286
11.1 A Brief Description of Scoring Procedure 293