# Construction of a Tool to Measure Self Perception of Higher Secondary School Students

## Dr. G. krishna

Assistant Professor Sri Vidhyodhaya College of Education,Villupuram

**Abstract**

In the present study Self Perception scale has been constructed and standardized for the Higher Secondary School students. This scale consists of 70 statements. The simple random sample technique was used for this study. The sample consists of 100 higher secondary school students randomly selected from the Villupuram District. The 't' value used to standardized the tool and finally 53 statements were retained for the final study.

**Keywords:** Self Perception, Higher Secondary School students.

**Introduction**

One of the objectives of the present investigation, if many be recalled, is to study the Higher Secondary School students self perception and also to study if there is any significant difference between the selected pairs of sub-samples in respect of their self perception. As there is no suitable tool available for the purpose, the investigator has constructed and validated one in order to realize his objectives.

The Self perception scale is a 5 point scale of 'strongly agree', 'agree', 'undecided', 'disagree', 'strongly disagree'. As many as 70 statement have been collected from the following source like higher secondary school students.

**Pilot study**

This Scale of 70 statements intended for the pilot study was administered to the sample, as many as 100 higher secondary school students studying in the Villupuram district. Then their responses have been scored carefully and the marks secured by all the students have been arranged in the descending order from the highest scores to lowest scores, then they were subjected to item analysis.

**Item Analysis**

The next step in the standardization of self perception scale (SPS)after pilot study is to find out the 't' value of each statement which forms the basis for item selection in order to buildup the final scale.

The Likert-type scale calls for a graded response to each statement on a five point scale ranging from 'Strongly Agree (SA)', 'Agree(A)', 'undecided(UD)', 'Disagree(DA)' and 'strongly Disagree (SDA)'. The different points on the scale are assigned arbitrary weights, for example 5,4,3,2 and 1 in the order of response for the positive statements.(37 items) The scoring scheme is reversed for the negative (33 items). The Scoring key given in below Table – 1.

**Table – 1 Scoring Key of the Scale according to the nature Items**

| Nature of the Items | Strongly Agree | Agree | Undecided | Disagree | Strongly Disagree |
|---|---|---|---|---|---|
| Positive: 1,4,5,6,9,10,11,13,14, 16,17,18,20,24,27,30, 31,32,33,37,38,39,40, 41,44,46,49,50,51,52, 55,58,59,60,62,67,70 | 5 | 4 | 3 | 2 | 1 |
| Negative: 2,3,7,8,12,15,19,21,22, 23,25,26,28,29,34,35, 36,42,43,45,47,48,53, 54,56,57,61,63,64,65, 66,68,69 | 1 | 2 | 3 | 4 | 5 |

**Item selection**

To select the items to form the final draft of the self perception scale, the difficulty index of the each item was analyzed. According to Edwards (1957), "the value of 't' is a measure of the extent to which a given item differentiates between the high and low groups. If the 't' value is equal to or greater than 1.96, it indicates that the average response of the high and low groups to a statements differs significantly, provided there are 27 or more subjects in the high group and also in the low group".

The 't' value for all the 70 items of the SPS were obtained to select the items for the final draft. Out of 73 items, 53 items were found to be selected as having 't' value more than 1. 96. They are given in Table -2.

**Table – 2 List of items selected for the final draft of the SPS based on their 't' value between upper and lower group**

| Item No | 't' value | Remarks | Item No. in the final draft of SPS |
|---|---|---|---|
| 1. | 2.12 | Selected | 1 |
| 2. | 4.74 | Selected | 2 |
| 3. | 0.74 | Not Selected | - |
| 4. | 3.44 | Selected | 3 |
| 5. | 1.99 | Selected | 4 |
| 6. | 3.95 | Selected | 5 |
| 7. | 3.61 | Selected | 6 |
| 8. | 3.20 | Selected | 7 |
| 9. | 2.67 | Selected | 8 |
| 10. | 2.20 | Selected | 9 |
| 11. | 2.37 | Selected | 10 |
| 12. | 1.48 | Not Selected | - |
| 13. | 5.03 | Selected | 11 |

| 14. | 2.00 | Selected | 12 |
|---|---|---|---|
| 15. | 0.36 | Not Selected | - |
| 16. | 3.94 | Selected | 13 |
| 17. | 6.04 | Selected | 14 |
| 18. | 4.49 | Selected | 15 |
| 19. | 3.48 | Selected | 16 |
| 20. | 5.40 | Selected | 17 |
| 21. | 3.13 | Selected | 18 |
| 22. | 5..66 | Selected | 19 |
| 23. | 3.67 | Selected | 20 |
| 24. | 4.34 | Selected | 21 |
| 25. | 1.18 | Not Selected | - |
| 26. | 3.13 | Selected | 22 |
| 27. | 1.91 | Not Selected | - |
| 28. | 0.42 | Not Selected | - |
| 29. | 2.52 | Selected | 23 |
| 30. | 2.63 | Selected | 24 |
| 31. | 3.05 | Selected | 25 |
| 32. | 4.67 | Selected | 26 |
| 33. | 2.32 | Selected | 27 |
| 34. | 1.77 | Not Selected | - |
| 35. | 3.31 | Selected | 28 |
| 36. | 3.42 | Selected | 29 |
| 37. | 3.25 | Selected | 30 |
| 38. | 6.62 | Selected | 31 |
| 39. | 3.44 | Selected | 32 |
| 40. | 5.86 | Selected | 33 |
| 41. | 0.95 | Not Selected | - |
| 42. | 3.09 | Selected | 34 |
| 43. | 3.06 | Selected | 35 |
| 44. | 2.11 | Selected | 36 |
| 45. | 1.23 | Not Selected | - |
| 46. | 2.79 | Selected | 37 |
| 47. | 3.81 | Selected | 38 |
| 48. | 2.41 | Selected | 39 |
| 49. | 3.50 | Selected | 40 |
| 50. | 2.33 | Selected | 41 |
| 51. | 1.72 | Not Selected | - |
| 52. | 3.98 | Selected | 42 |
| 53. | 2.88 | Selected | 43 |
| 54. | 1.64 | Not Selected | - |
| 55. | 4.17 | Selected | 44 |

| 56. | 1.46 | Not Selected | - |
|---|---|---|---|
| 57. | 0.44 | Not Selected | - |
| 58. | 0.00 | Not Selected | - |
| 59. | 4.65 | Selected | 45 |
| 60. | 0.10 | Not Selected | - |
| 61. | 3.38 | Selected | 46 |
| 62. | 1.22 | Not Selected | - |
| 63. | 2.45 | Selected | 47 |
| 64. | 4.26 | Selected | 48 |
| 65. | 4.35 | Selected | 49 |
| 66. | 3.25 | Selected | 50 |
| 67. | 3.70 | Selected | 51 |
| 68. | 2.88 | Selected | 52 |
| 69. | 0.92 | Not Selected | - |
| 70. | 4.17 | Selected | 53 |

**Reliability**

In order to establish the reliability of Self perception scale, the odd – even method was used. The reliability of Self perception scale was found to be 0.84. Hence, self perception scale was considered as reliable.

**Validity**

The index of validity which is the square root of the reliability was found to be 0.92. Hence self perception scale selected for the study was considered to be highly valid.

**Conclusion**

The investigator is hopeful that this scale would be helpful to measure the level of self perception higher secondary school students. Hence this tool will be very useful for the investigator to measure to what extent the level of self perception is in the higher secondary school in the students.

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