APPENDIX-II

Cognitive Interference (Color-Word Stroop Task)

Procedure – After making proper arrangements, experiment was started. The Color task was administered first. By placing a Form C Stimulus Sheet in front of the S on a flat surface, S was instructed as, “On this page are some words. I would like you to read these words aloud as quickly as you can, starting at the top of this first column. When you finish the first column, go to the top of the next column and so on till the ending of last column. Read the words aloud as quickly and as accurately as you can. If you make a mistake, just correct yourself and keep on going.” The S was asked, “Have you followed the procedure? If O.K., should I continue”? After taking his/her consent, actual procedure was started. S’s responses were recorded by making a check mark next to the item as shown on the second page of the Record Form. Incorrect responses were recorded by entering an ‘X’ next to the item. Corrected responses were marked with ‘C’ next to the item. The S was allowed 120 seconds for this task. Time was noted by using a stopwatch. After the completion of this task Form C Stimulus Sheet was removed and the Color-Word task was then administered. Form C-W stimulus sheet was placed in front of the S on a flat surface and he was instructed as, ”Here is a sheet with more words on it. This time I would like you to name aloud the color of the ink – red, blue, green, or yellow (by pointing to words printed in these colors) – in which the word is printed. Go as quickly as you can, going down the columns just as you did before. For this first one you would say ‘Red’. Understand? If you make a mistake, just correct yourself and keep on going. Name the color of the ink as quickly and as accurately as you can.” The S was asked, “Have you followed the procedure? If O.K., should I continue”? After taking his consent, actual procedure was started. S’s responses were recorded by making a check mark next to the item as shown on the third page of the Record Form. Incorrect responses were recorded by entering an ‘X’ next to the item. Corrected responses were marked with ‘C’ next to the item. S was allowed 120 seconds for this task. The total time to correctly name all of the items in each condition was measured with a stopwatch.
Scoring – The Color-Word score is the primary score used in the interpretation. Although many research versions of the Stroop procedure calculate a difference, or interference, score based on the performance on the Color and Color-Word Tasks. The Color and Color-Word Scores are calculated by using the following formulae –

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\text{Color Score} = \text{No. of correct responses or No. of items completed minus incorrect responses, on the Color Task}
\]

\[
\text{Color-Word Score} = \text{No. of correct responses, or No. of items completed minus incorrect responses, on the Color-Word task}
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Scoring of responses on this task was completed by using the formula for calculating the Color-Word scores. Hence, higher scores were considered as indicative of less cognitive interference and vice-versa.