



Benha University

Faculty of Art

Department of Psychology

Summary of Master's Thesis entitled :

The Impact of Type Stimulation and Level of Concentration on The Speed of
Complex Reaction Time among Males and Females College Students

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The current Study aimed to find out the Impact of the type Stimulation (auditory - visual) and Level of attention Concentration (high – low) on The Speed of Complex Reaction Time among Males and Females College Students .

The study relied on the experimental method , Between subjects factorial design was used .

This study divided into : **a field Experimental** which conducted on a sample of (240) males and females at the faculty of literature , commerce , Education and Science at benha university . it was divided into (120 males) and (120 females) who use the right hand , and their ages ranged between (19 : 24) years . with a mean age (20,66) and a standard deviation (1,2) years .

Laboratory Experimental which conducted on a sample of (54 males) divided into (27 of high attention , 27 low attention) . and (54 females) divided into (27 of high attention , 27 low attention) . they were divided into high and low attention based on the Cancelling Digits Test , because it is more distinguishable than Cancelling Letters Test . All those who had a history of disease such as (epilepsy , convulsions , and excessive electricity in the brain) , as well as smokers and addicts , were excluded . married women and left – handed users were also excluded , Because these extraneous factors affect the speed complex reaction time .

the tools of this study were : Cancelling Letters Test , Cancelling Digits Test and Compound complex reaction time measurement program .

All the hypotheses of the current study have been fulfilled . and by using the following statistical methods such as : simple correlation coefficient , multiple progressive regression analysis , binary variance analysis and t – test to calculate the significance of the differences between two unrelated groups .

the results of the study: this study showed that male faster than female in complex reaction time , showed that Auditory Stimuli faster than visual Stimuli & Although showed that high attention students are faster than low attention students in Complex Reaction Time , it also shows the possibility of predicting the level of attention concentration quickly .

Keywords :

Type Stimulation , Auditory Stimulation , visual Stimulation , Level of Concentration , Complex Reaction Time .