

## Summary of the thesis

The Components of working Memory and its relation with Brainstorming and memory Capacity

### Issue of the thesis:

This study aims at verifying the following :

Does the working memory has any role to do with brainstorming or it has only to do with storing and processing functions?

Is there any relation between the Components of working memory , Brainstorming and memory capacity or not?

### Sample of the thesis:

The study sample included 200 of the university male and female student . the sample was divided into

50 male student in theoretical faculties

50 female student in theoretical faculties.

50 male student in practical faculties .

50 female student in practical faculties.

### Tools of the thesis:

The tools of the study were classified in to two types:

First, tools of sample conformity:

1- High intelligence test .prepared by Dr. Al sayed Mohamed Khairy.

2-Family social economic level test . prepared by Dr Abdul Aziz Al shaks.

Second , tools for measuring differences

1- the test of verbal component of the working memory , prepared by Dr Abd Rabu Suliman.

2- test of the visual component of the working memory , prepared by Dr Abd Rabu Suliman.

- 3- Test of memory capacity prepared by Dr Abd Rabu Suliman.
- 4- Brainstorming test **The researcher used these tools to verify the correctness of the following hypotheses:**  
 , prepared by the researcher .
  - 1- There is a correlation of the working memory component and brainstorming.
  - 2- there is a correlation between working memory component and memory capacity
  - 3- there is a statistically proving differences between the average scores of male and female students related to the tools in favor of the male students
  - 4- There are statistically significant difference between the average cores of theoretical and practical faculty theoretical or practical faculties releted to the tools in favor of the practical faculties.

### **Results.**

- 1- there is a positive indicating relation between the student scores in the components of the working memory ( verbal ,visual )and the brainstorming.
- 2- there is a positive indicating relation between the student scores in the components of the working memory ( verbal ,visual )and the memory capacity.
- 3- there is postitive statistically indicating differnrnces between the average scores of male and female student s in the visual component . the T value was 5.493 which is a function at the level 0.01 in favor of female students. The difference in the verbal competent of working memory was not significant and also in the memory capacity and brainstorming as the T value did not reach the level of statistically approved function.

- 4- There are statistically significant differences between the average scores of practical and theoretical universities the working memory component and brainstorming in favor of the practical universities students . The T value =6.81 ,2.655, 7.44 successively the verbal and visual components make a Function of 0.01 in favor of practical faculties while the T value did not reach the approved level of significance in the variable of the working memory capacity.