

Brain Dominance and Emotional Intelligence of College students

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Abstract

The present study is on development of brain dominance and its physiology works out in developing the cognitive thinking and the development of emotional intelligence. As said in the 4th bc brain is for development of mind and mind which involves in the development of intelligence. Cognitive thinking plays a premium role in the development of emotional intelligence. Is emotional intelligence necessary for the development of human is proved to influence the part of human mind? Mind is for intelligence and it plays a crucial role in the development of multiple intelligence which includes the development of emotions. So without cognitive development It is not able to develop emotional intelligence. Intelligence with high sensitivity may led to improper emotions. Proper proportion of the senses may lead to emotional intelligence and sense the cognitive development in the positive direction.

1. Introduction:

Education is the main mean to develop the all round development of personalities. Innate potentials of a person is developed through education. An well organized society can be formed through education. Hence, it is proved that the development of a society is never possible without education.

“Men ought to know that from nothing else but the brain come joys, delights, laughter and sports and sorrows, grief, despondency and lamentations and by the same organ we become mad and delirious and fears and terrors assail us some by night and some by day and dreams and untimely wanderings and cares that are not suitable and ignorance of present

circumstances, demetude and unskillfulness. All these things we endure from the brain...”[1]

HIPPOCRATUS, father of medicine, on the sacred disease.

Human behavior comes from the human brain. Man is nor by nature a logical creature. His behavior is determined entirely by the interact (Conflict, Resolution, Competition, Cooperation, Coordination) between his various instincts. Genetically determined neural mechanism provided by evolution for behavioral guidance. There is no mechanism for intelligence or memory which is separate from sensory motor and instinct mechanisms. Man may be trained and educated. He may be taught knowledge for use as raw material in his instinctive and not capable of objective reasoning or proper cultural behavior under modern social environments. The self disciplined and educated human is fully capable of both.

Functions of brain:

Human brain is broadly classified into different lobes they are prefrontal lobe, frontal lobe, parietal lobe, occipital lobe and temporal lobe. Other parts like cerebellum, Pons, medulla oblongata also acts as a deciding factor for intelligence and leadership qualities of a man. In some persons the fore brain acts well and in some person the hind brain acts well and on the left, the mid brain acts well. Apart from these every parts of the brain functions in a well balanced manner. Such persons are considered to be an expert.

The left side is considered the logical, Analytical objective side. The right side is thought to be more

intuitive, creative and subjective side. When you are logical you're using the left side, when you're listening to music you're using the right side. The right leg and right hand action made by the person decides the activities of right brain and vice versa.

Four functions of brain:

- (i) Utilitarian: helps the person to achieve rewards and gain approval from other.
- (ii) Knowledge: helps the person to structure the world so that it makes sense.
- (iii) Ego Defense: helps protect their ego.
- (iv) Value expression: helped the person express important aspects of the self concepts.

Types of memory:

Working memory:

Working memory is the ability of the brain to maintain a temporary representation of information about the taste that a person is currently engaged in this dynamic memory is mediated by the formation of cell assemblies. By stimulation it works possibly.

Episodic memory:

Episodic memory is the ability to remember the details of specific events. This lasts for life time. Hippocampus plays a crucial role in this memory.

Semantic memory:

Semantic memory is the ability to learn facts and relationships. It is stored in cerebral cortex mediated by changes in connections between cells that represent specific type of information.

Emotional intelligence:

Emotional intelligence refers to the ability to perceive, control and evaluate emotions. Some researchers suffers that emotional intelligence can be learned and strengthened while others claim it is an inborn characteristic.

The four branches of emotional intelligence:

Perceiving emotions: the ability to detect and decipher emotions in faces, pictures voices and cultural artifacts including the ability to identify one's own emotions. Perceiving emotions represents a basic aspect of emotional intelligence, as it makes all other processing of emotional information possible.

Using emotions: the ability to harness emotions to facilitate various cognitive activities, such as thinking and problem solving. The emotionally intelligent person can capitalize fully upon his or her changing mood in order to best fit the task at hand.

Understanding emotions: the ability to comprehend emotional language and ready to appreciate complicated relationships among emotions. For example understanding emotions encompasses the ability to be sensitive to slight variations between emotions and the ability to recognize and describe how emotions evolve over time.

Managing emotions: the ability to regulate emotions both ourselves and in others. Therefore, the emotionally intelligent person can harness emotions, even negative ones and manage them to achieve intended goal.

2. Review of literature:

Usha & Annaraja,(2006) made a study on chemistry of the higher secondary students in Tiruvananthapuram district. The study shows that 18.8% of higher secondary students had left brain dominance, 62.8% of them had middle brain dominance, 18.4% of them had right brain dominance and 12.4% of higher secondary students had high level of achievement in chemistry

Aneeshya & Amalraj,(2008) made a study on self concept and adjustment problems of prospective teachers. The study revealed that no significant difference was found in self concept and its dimension of prospective teachers with regard to sex and major subject but significant difference between nuclear and joint family.

Vengo Regis & Annaraja,(2008) made study on thinking style and cerebral dominance of biology students at Hr sec level. Findings say that 20% of the boys and 14.3% of the girls had high level of synthetic thinking style, 16.7% of the boys and 12.1% of the girls had idealistic thinking style 11.7% of the boys and 23.6% of the girls had pragmatic thinking style.

Brain dominance:

Possibly both left side and right side brain functions as 50%-50%. It means the person is logical as well as creative mostly people use one side of the brain more than the other. Highly creative people tend to use the right side of the brain more, while highly logical people tend to use the left side more.

Brain Dominance is the use of right, left and mid brain in determining learning and listening patterns, that is to mean, the consistence of using one side of the brain over the other.

Emotional intelligence:

Emotional intelligence refers to the ability to perceive, control and evaluate emotions. Some researchers refers that emotional intelligence can be learned and strengthened while others claim it is an inborn characteristic.

3. Chief Objectives

1. To find out the level of brain dominance in college students.
2. To find out the level of emotional intelligence in college students.

Secondary objectives:

1.1 To find out whether there is any significant difference between male and female college students in their brain dominance.

1.2 To find out whether there is any significant difference between male and female college students in their emotional intelligence.

Hypothesis:

1.1 There is no significant difference between male and female college students in their brain dominance.

1.2 There is no significant difference between male and female college students in their emotional intelligence

4. Method of the study:

It is proposed to use survey method for studying the problem. The investigator wants to find out the real condition which is prevailing among the college students. So the adoption of survey methods would be more relevant and desirable.

POPULATION OF THE STUDY:

The total population includes the college students studying in colleges at Tirunelveli, Virudhunagar, and Madurai affiliated to Manonmanium Sundaranar University and Madurai Kamaraj University respectively.

SAMPLE:

By stratified random sampling technique a sample of 1000 students has been selected

Tools proposed to use:

1. Adapted the brain dominance scale developed by Loren D Crane.
2. emotional intelligence inventory will be developed by the investigator and the guide.

STATISTICS PROPOSED TO USE:

1. Percentage analysis
2. t- test

Table 1: Level of brain dominance of male and female college students

Gender	male		female	
	No	%	No	%
Left brain	21	13.0	135	19.1
Mid brain	100	62.1	467	66.2
Right brain	40	24.8	103	14.6

From the above table It is inferred that 13.0% of male college students have left brain,62.1% of them have mid brain and 24.8% of them have right brain dominance

19.1% of female students have left brain, 66.2% of them have mid brain and 14.6% of them have right brain dominance

Hypothesis

There is no significant difference between male and female College students in their right/mid and left brain dominance

Table No 2: Difference between Male and female of college students in their brain dominance

Brain dominance	Male (161)		Female (705)		Calculated 't' value	Remarks
	Mean	SD	Mean	SD		
	11.44	3.60	10.78	3.69	2.032	S

(At 5% level of significant the table value of 't' is 1.96)

From the above table it is inferred that the obtained' value is greater than the table value. Thus there is significant difference between male and female college students in their brain dominance. Female college students are better than male college students on their brain dominance.

LEVEL OF EMOTIONAL INTELLIGENCE OF MALE AND FEMALE STUDENTS

It is inferred from the above table that 17.4% of male college students have low 64.6%of them have moderate and 18.0% of them have high level of self awareness ,15.6 % of female college students have low ,71.5% of them have moderate and 12.9% of them have high level of self awareness

19.9% of male college students have low, 64.0% of them have moderate and16.1% of them have high level of Self management, 16.6% of female students have low, 70.6% of them have moderate and 12.8% of them have high level of self management.

14.9% of male college students have low, 64.6% of them have moderate and 20.5% of them have high level of social awareness, 14.3% of female students have low, 77.9% of them have moderate and 7.8% of them have high level of social awareness.

17.4% of male college students have low, 57.8% of them have moderate and24.8% of them have high level of Relationship management, 14.9% of female college students have low, 74.6% of them have moderate and 10.5% of them have high level of Relationship management.

16.8% of male college students have low, 64.6% of them have moderate and18.6% of them have high level of emotional intelligence, 13.6% of female college students have low, 77.4% of them have

moderate and 8.9% of them have high level of emotional intelligence.

Significance of the study:

The researcher has chosen the present study because in the fast moving world men and machine are speaking. At this juncture it is essential to prove that the creation of god how far speaks and how the brain functions in a person to invent so called machines. Not only that it is emotions which affects or effects the growth of the brain is to be realized, or not the universe speaks with the machine and not respecting the mind may mind to go in a different track. At this present scenario it is essential that stress which plays a vital role in the fast moving world may lead to several diseases. To control and to bring effect the brain dominance with the emotional intelligence. The study will be proved as the successful frame work for the entire universe.

LIMITATIONS:

1. This study is limited to college students.
2. It is limited to the districts Tirunelveli, Virudhunagar and Madurai.

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