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Comparative study of intelligence between science and physical education male students of CBSE schools of Indore division

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Abstract

The purposes of this study were to find out the Comparative Study of Intelligence between Science and Physical Education Male Students of CBSE Schools of Indore Division. First objective of the study was to characterize and compare the intelligence between the students of Science and physical education. The subject was selected through Random sampling technique from students of CBSE school of Indore division at higher secondary level of Bio, Physical education, and Commerce boy's students. The age of the subject ranged between 15-18 years. The total number of subjects one hundred eighty (N=180) total groups was two like Sciences, and Physical education, from each groups was equal subjects sixty (N= 90) only boys student for School going was selected. In total 15 CBSE School Indore Division. The subject was selected through Random sampling technique from students of CBSE school of Indore division at higher secondary level of Sciences, and Physical education boys' students. The age of the subject ranged between 15-18 years. The total number of subjects one hundred eighty (N=180) total groups was two like Sciences, and Physical education, from each groups was equal subjects sixty (N= 90) only boys student for School going was selected. In total 15 CBSE School Indore Division. A large number of psychological variables Intelligence (Mental Ability). Descriptive statistics was applied between Sciences and Physical education students' only boys' student for School going was selected. In total 15 CBSE School Indore Division. Independent t-test was applied. The data was processed through Statistical package for social science (SPSS) version 21. The level of Significant was set at 0.05. In order to analyses the data of the study descriptive statistics was applied and for compare between Sciences, and Physical education students' only boys student for School going was selected. In total 15 CBSE School Indore Division. Independent t-test was applied. The data was processed through Statistical package for social science (SPSS) version 21. The level of Significant was set at 0.05.

Keywords: Intelligence, training, drills, hockey, performance, control, experimental etc.

Introduction

As we know, education, particularly school education, aims at the holistic development of children. It provides students with opportunities to grow and develop as adults to be useful for the society. It is important for us to know that one of the most important requirements for growing into healthy adulthood is the physical growth which supports cognitive development. It is, therefore, necessary that all children get adequate opportunity to participate in free play, informal and formal games, sports and yoga activities. It is in this context that health has been made a significant component of the subject of Physical Education in the school education system of the country. The subject "Health and Physical Education" adopts a holistic definition of health within which physical education and yoga contribute to the physical, social, emotional and mental development of a child. In view of the above, the meaning of physical education becomes a little different from what is commonly understood. Physical education comprises holistic education for the development of personality of the child to its fullest and perfection in body, mind and spirit through engaging in regular physical activities. Physical education through the medium of physical activities helps individuals to attain and maintain physical fitness. It contributes to physical efficiency, mental alertness and the development of qualities like perseverance, team spirit, leadership and obedience to rules. It develops personal and social skills among the learners and makes a positive impact on their

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physical, social, emotional and mental development. It also contributes to the total health of learners and the community. Physical education thus, can be defined as a subject that is not only focused on physical fitness but is also concerned with development of a number of skills, abilities and attitudes for leading a healthy lifestyle.

Objectives of the study

- The objective of the study was to characterize and compare the intelligence between the students of Science and physical education.

Statistical Procedure

- In this study was to characterize and compare between Science and physical education students. Descriptive statistics and independents t- test was used.

Methodology

The subject was selected through Random sampling technique from students of CBSE school of Indore division at higher secondary level of Sciences, and Physical education boys’ students. The age of the subject ranged between 15-18 years. The total number of subjects one hundred eighty (N=180) total groups was two like Sciences, and Physical education, from each groups was equal subjects sixty (N= 90) only boys student for School going was selected. In total 15 CBSE School Indore Division. A large number of psychological variables Intelligence (Mental Ability). Descriptive statistics was applied between Sciences and Physical education students’ only boys’ student for School going was selected. In total 15 CBSE School Indore Division. Independent t-test was applied. The data was processed through Statistical package for social science (SPSS) version 21. The level of Significant was set at 0.05.

Criterion Measure

The criterion measure of the study was the score obtained from the questionnaire of mental ability level Intelligence students of physical education.

Intelligence (Mental Ability)

The intelligence of the subjects was measured by applying Group Test of General Mental Ability (Hindi version) developed by Dr. S. Jalota².

The Intelligence tests was in Hindi. There were five pages with one hundred questions. Besides, it was employed ten items for practice in the beginning. Each item was framed in a selected form providing four alternatives to each question. This test were consisted of subjects namely; finding relations odd one out, vocabulary similar or opposite and mathematical

ability. All the subjects were asked to sit comfortably and were advised to have peace of mind and free from outside disturbance before the start of the test. Then there were acquainted with the very purpose of the test, after the distribution of the questionnaire and answer sheets, all the subjects were briefed with the procedure of the test. The instruction was passed on to the subject which were mention in the test booklet.

The subjects were informed about the test of intelligent which was completed in 25 minutes. Example of various types of problem set in the test was explained before the subject attempt the test. Alternative answer was given and subjects were asked to choose the right answer and to write its number on the answer sheet provided to them. There was no much writing work to be done. There was only one correct answer to each question and its correct answer carried one mark. There was very rate for a person to complete all questions. So the subjects were advised to work very quickly and solve accurately as many questions as they were complete and if they were found any problem to be too difficult, them they were instructed not to spend much time over that and to attempt the next one. The booklet was not to be mark any way.

Subjects were asked to get their doubts clarified. After that they were asked to do the example which was written on the cover pages. Then they were allowed to start the work. The investigator was helped to clear the doubts when the subjects were asked for doing the completion of the test. The filled answer sheet were collected and tagged properly.

The answer sheet was scored with the help of scoring key providing for this purpose. There were done by placing the scoring key on the answer sheet in a manner as the key answers of ‘page one’ was exactly on the question marker and the other columns of the question number.

The wrong answer was crossed out with red pencil. The score were counted with the addition of right answer of each page and were written in the space provided for this purpose on the answer sheet. The total number of correct answer was taken as the scored for the subject.

Scoring of Intelligence Questionnaire

The answer sheets were scored with the help of scoring key provided for this purpose. Placing the scoring key on the answer sheets in a manner as the answer of ‘Page one’ were exactly on the question marks and the other columns of the question number also done in same way. The raw score was converted into ‘Percentile ranks’ with the help ‘Norms’.

Independent t-test for the data of Intelligence between the Science and Physical Education students of CBSE schools of Indore Division.

Table 1: Independent t test

S. No.	Groups	M	MD	SED	Calculated t-ratio	Tabulated-t-ratio
1	Science	59.3	-0.94	1.41	-0.6667	1.984
2	Physical Education	60.2				

*Significant at 0.05 level (df-2,172) = 1.984)

Table 4 reveal that the calculated t- value (-0.6667) was more than the tabulated t-value (1.984), so there was no significant difference between the mean scores of Comparative Intelligence between the Science and Physical Education students of CBSE schools of Indore Division.

Discussion of Findings

The reason of these differences can be associated with above

results this is probably due to the different nature of the physical components training and per-requisite for coaches. Number of training and level of participation. The reason may be attributed that the physically trained Coaches or level of athletes’ achievements and taken different types nutrition food. These results may be due to a small sample of size and other factors such as different types of body, differences in body composition. These results may be nutrition diet

schedule deference. The reason may be Psychological variables like stress, sports competition anxiety, aggression, fear, motivation confidence, attention concentration etc.

Conclusions

According to objectives of the study the following conclusions were drawn:

- There was no significance Mean score between science and physical education students of CBSE schools of Indore Division of Intelligence.

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