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INTERLINK RESEARCH ANALYSIS

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EFFECT OF HERDITY AND ENVIRONMENT ON SPORTS PERSONS

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Research Paper - Phy. Education

ABSTRACT

Although sports differ in the skills required for successful performance one thing they share is the blending of physical and mental faculties into appropriate action. There is significant literature attesting to the hereditary nature of specific physiological and cognitive characteristics many that are relevant to sport performance and cognitive characteristics many that are relevant to sport performance studies of hereditary characteristics are essentially interested in how a person's genetic makeup. The examine these relationships researchers typically examine twins and or members of a family.

Introduction :

It was recognized that the heredity and environment factors plays a major role in shaping the performance of an individual sports person and achievement in sports. Sports scientist has examined numerous factors influencing the acquisition and manifestation of high levels of performance. These factors can be divided into variable into variables having a primary influence on expertise and variables that have a secondary influence



through their interaction with other variables. Primary influences on expertise include genetic training and psychological factor while secondary influences included social cultural and contextual elements.

Methodology :

Statement of the problem:

In the present study an attempt has been made to investigate the point whether there is any significant impact of heredity and environment on sports performance of the athletes.

Objectives :

- 1) To know the relation between heredity and environment on the performance of sportsmen.
- 2) To probe the differences in the performance of the heredity and non heredity athletes of Gulbarga District.

Hypothesis :

- 1) There is significant influence of heredity and environment of the performance of sportsmen in the different sports events and competitions.
- 2) There is a significant difference in the performance of heredity and non heredity athletes of Gulbarga District.

Variables :

- 1) Independent Variable : Heredity and Environment
- 2) Dependent Variable : Athlete Performance

Sample Design :

Sl.No.	Heredity Athletes	Non-Heredity Athletes	Total
1.	50	50	100

**Data Analysis :****Table - 1 Mean SD and t-value of heredity athletes and non-athletes performance in 100 mtrs run**

Athletes	Mean	SD	t-values
Heredity	11.62	0.5	3.52
Non-Heredity	14.14	0.6	

**** Significant at 0.01 level**

Therefore it could be claimed that the heredity athletes have better performance that the non heredity athletes.

Table - 2 Mean SD and t-value of heredity athletes and non-athletes performance in 200 mtrs run

Athletes	Mean	SD	t-values
Heredity	22.98	1.41	20.59
Non-Heredity	27.51	0.94	

**** Significant at 0.01 level**

Therefore it could be claimed that the heredity athletes have better performance that the non heredity athletes.

Table - 3 Mean SD and t-value of heredity athletes and non-athletes performance in 400 mtrs run

Athletes	Mean	SD	t-values
Heredity	56.62	1.48	44.04
Non-Heredity	67.19	0.94	

**** Significant at 0.01 level**



Therefore it could be claimed that the heredity athletes have better performance than the non heredity athletes.

Finding of the study :

1. There is a significant difference in the performance of heredity athletes and non heredity athletes in 100 mtrs. run.
2. Heredity athletes have performance better than the non heredity athletes in 100 mtrs run.
3. There is a significant difference in the performance of heredity athletes in 200 mtrs run.
4. The heredity athletes have performance better than the non heredity athletes in 200 mtrs run.
5. There is a significant different in the performance of heredity athletes and non heredity athletes in 400 mtrs. run.
6. The heredity athletes have performed better than the non heredity athletes in 400 mtrs run.

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