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## CONSTRUCTION AND STANDARDIZATION OF KORFBALL SKILL TEST FOR COLLEGIATE MEN PLAYERS OF PUNE UNIVERSITY



**Daptare Surekha S.**

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\*DPE, Smt. Pushpatai Hiray Mahila Mahavidyalaya Nashik, (M.S)-INDIA.  
E.Mail:surekha25881@gmail.com

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### **Abstract:**

The study titled Construction and Standardization of Korfball Skill Test for Collegiate Men of Pune University was done aged 18 to 29 years. The objective of the study was to Construct and standardized a suitable 'Test' to select Korfball men Players. This study was restricted for the Korfball men players of Pune University. A total of 220 subjects were chosen for the study. This study was delimited to Skill test necessary for the excellent performance in korfball. After going through various reviews, books, and articles certain tests were not found in the any test battery. Researcher selected five major skills of korfball and constructed 4 korfball skill tests 1) Field Goal Test, 2) Speed Pass Test, 3) Footwork and Agility test and 4) Pivot Test. The tests were standardized by determining the objectivity, reliability and validity. Test retest method was used for reliability, correlation between different observers for objectivity and face validity were taken in to consideration for the standardization of the test. The Validity of skill tests found .87, .83, .87 and .85 respectively. The Reliability of skill tests of males Reliability found .81, .88, .86 and .84 respectively. The Objectivity of skill tests of Male's Objectivity found .97, .95, .99 and .1.00 respectively. Descriptive analysis was done by testing the Mean, Median and Standard Deviation. The normality of the scores was tested through skewness and kurtosis. The outliers from the scores were removed using the Box plots. The present norms of 4 finally selected test items indicate that the distribution of scores of almost all the test-items resides in the normal range of probability curve. The performance norms of each skill test (items) were graded as poor, fair, average, good, and excellent on the basis of Rank order method. Grading scale of the score was given to help in selection separately for male and female.

**Keywords:** Korfball, Skill Test, Pune University, Men, Collegiate & Test Standardization.

### **Introduction**

Physical education had lost its relevance in the last few decades due to various reasons. But now the scenario is changing, due to the scholarly efforts of many Physical Educations professionals, physical education has obtained a status now. The education boards have made it mandatory for the physical education teachers to conduct the physical education programmed by keeping theory as well as practical exams. An allotment of 50 marks to Physical education subject has brought great relevance to physical education as a subject. The school authorities and

physical education teacher, who were taking Physical Education for granted, have understood the importance and need of physical education due to the change in the syllabus and curriculum of physical education. Various new activities are being included in physical education.

**Objectives of the Study:**

The present study was conducting with following objectives:-

- To design and construct skills test for Korfball game.
- To standardized the constructed skills test in Korfball game.
- To prepared the norms for Pune university Korfball men players

**Hypothesis:**

- Since the theme of the study was new and it will be justified with a sound review of literature, the researcher hypothesizes that: -
- H<sub>1</sub>: - “Korfball Skill Test” would possess significant Reliability for the selected skills Test.
- H<sub>2</sub>: - “Korfball Skill Test” would possess significant Objectivity for the selected skills Test.
- H<sub>3</sub>: - “Korfball Skill Test” would possess significant Validity for the selected skills Test.

**Methodology:**

The study was confined for the collegiate men player from Pune University. Also this study was conducted for Standardization of Skill Tests which includes two stages i.e. construction of skill test and standardization. A large number of subjects were required to get reliable results. As this study was restricted to the colleges affiliated to the Pune University, and a large number of varsity Korfball players were necessary, the investigator proposes to select all the colleges those who had korfball teams participating in inter collegiate Korfball competition.

**Table No: 1  
 Details of Sample**

Sr. No.	Sports Zone	Year 2010-11	Year 2011-12	Total
		Male	Male	
1	Pune City	24	30	54
2	Pune district	40	30	70
3	Ahemd Nager	16	20	36
4	Nashik	30	30	60
<b>Total</b>		<b>110</b>	<b>110</b>	<b>220</b>

**Procedure of the Study:**

Construction of skill tests was done by reviewing following steps. In the beginning, purpose and format of the tests was decided by reviewing references and by discussion with the experts. Many criterions and literatures were reviewed and tests items were

selected. Then the equipments and ground measurements were then decided after several experiments with the guidance of the experts. After the establishment of purpose of the test, proper procedure acquiring required equipment needed, a pilot study was conducted on the Korfball players from Nashik and desired changes were made in the tests in order to make tests easier to administer. These constructed Korfball tests were then administered on the korfball players from nashik District and to derive reliability, validity & objectivity.

Reliability was counted by test retest method. Researcher administered constructed korfball tests on same group twice and the reliability was established by finding out the correlation between these two scores. In order to find out the Objectivity, researcher took the help of one more expert to administer these constructed korfball tests on the players and objectivity was derived by finding out the correlation between these two scores Validity was calculated by calculating the correlation between the grading of the Korfball players done by experts and the ranking of their skill tests scores. The Percentile Norms and Standards were developed with the help of scores obtained by administration of these skill tests on the Korfball men players participated at the collegiate level korfball tournament organized by Pune University. In this way tests were standardized and finally test manual is made.

**Standardization of Korfball Skill Test:**

The data was collected into two stages. In the first stage the data was collected for the standardization of the constructed korfball skill tests and in second stage the data was collected to prepare norms. The data was initially analysed for descriptive statistics. Mean, median, standard error of mean, Standard Deviation, Kurtosis and skewness were calculated to find out the normality of the data.

**Table No: 2**  
**Reliability, Validity and Objectivity of Korfball test for Male Players.**

Name of Test Item	Reliability coefficient	Objectivity coefficient	Validity coefficient
Field goal test	0.815	0.97	0.87
Speed Pass Test	0.882	0.95	0.83
Footwork & Agility Test	0.861	0.99	0.88
Pivot Test	0.849	1.00	0.85

**Descriptive Statistics of the Test Conducted are as given below:**

The descriptive statistics of the collected score was done. The mean, median, mode and standard deviation were calculated. To find the normality of the scores the skewness and the kurtosis were calculated. Some of the scores (outliers) were excluded with the help of Box plots through SPSS. The Percentile method was used to create norms

**Grading Scale of Tests for Male Korfball Players:**

The percentile norms, presented above, were further substantiated to find out the performance in the tests in favour of selection of Handball players. In fact, a percentile score indicates the percent of individuals who fall below a specific score, whereas the grading signifies the performance ability within a range of score. In fact, the grading followed by percentile method was derived for the subjects in each item using Criterion-Referenced Grading, percentage correct method. The derivation of grade in the test-item has been presented in table 3

**Grading:**

The grading scale prepared is presented below in detail. For the description of player performance Excellent, above average, Average, below average and Poor descriptor words are used.

**Table No: 3**  
**Grading Scale on Item-wise Performance for Selection of Korfball Male Players**

Test-Items	Poor	Fair	Average	Good	Excellent
Field Goal Test	7 & below	8 to 9	10 to 11	12 to 13	14 & above
Speed Pass Test	32 & below	33 to 36	37 to 39	40 to 42	43& above
Footwork And Agility	20.01& above	20.00 to 19.09	19.08 to 18.19	18.18 to 17.15	17.14 & below
Pivot Test	11.32 & above	11.31 to 10.28	10.27 to 9.39	9.38 to 8.32	8.31 & below

**Conclusion:**

- Field goal skill test can measure the goal shooting skill of Male Korfball players.
- The field goal test is Valid, Reliable and Objective.
- Speed pass skill test can measure the passing skill of Male korfball Players.
- The Speed Pass test is Valid, Reliable and Objective.
- Foot work and Agility skill test can measure the Foot work and Agility skill of Male korfball players.
- The Foot work and Agility test is Valid, Reliable and Objective.
- Pivot skill can measure the Pivoting skill test of Male korfball players.
- The Pivot test is Valid, Reliable and Objective.
- The norms of the test are gradable and can be useful to distinguish Korfball Male players having a good level of skill performance.

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