Chapter - III

Procedure
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In this chapter, selection of subjects, construction of questionnaire, to measure attitude of Vice-chancellors towards physical education and sports of Asian Universities, administration of questionnaire on subjects and statistical techniques for analysing the data are presented.

Selection of Subjects

Thirteen Vice-chancellors of Asian universities and seventy one Vice-chancellors of Indian Universities who responded to the questionnaire were considered as subjects of the study.

The subjects for the study were the Vice-chancellors of Indian Universities and Universities of Asian Countries. The mailing list of Vice-chancellors of Indian universities was prepared on the basis of the mailing list of Association of Indian universities, New Delhi. The mailing list of the Vice-chancellors of Asian universities other than
India was also prepared on the basis of yearbook 1999 of world universities\(^1\).

The questionnaire prepared to measure attitudes of Vice-chancellors was mailed to all the Vice-chancellors of Asian Universities with a request letter to return the filled questionnaire to the investigator in self-addressed stamped envelope.

**Construction of Questionnaire**

A questionnaire to measures attitudes towards physical education and sports of Vice-chancellors of Asian Universities was prepared by identifying different areas of physical education with the help of available literature, supervisor and sports scientists working in this field of research in physical education. The identified areas were as follows:

1. Objective related
2. Mental and Emotional well-being
4. Aims related
5. Responsibilities of physical education personnel related.

6. Child growth related
7. Ageing process related
8. Female related
9. Society related
10. Posture and Hygiene related
11. Psychological qualities related.

A clean and precise questionnaire dealing with different aspects of physical education and sports as stated above was developed keeping in mind the following important factors:

1. All available scientific information related to physical education.

2. The past experiences of the supervisor and other experts of physical education and sports.

3. Personal experience, knowledge and vision of the research scholar.

The detailed procedure adopted for preparing the questionnaire is given below:

A. **Initial Writing**

Based on the above the considerations, a preliminary questionnaire were prepared with 150 statements on 11
different aspects of physical education on five point likert scale
i.e. strongly agree, agree, undecided, disagree, and strongly
disagree. These statements were than organized and arranged
in a sequence order and efforts were made to keep the
statement short, precise, simple and clear.

This preliminary questionnaire was than typed out neatly with
clear directions provided to answer the statement. The five
point likerts scale\(^2\) was used for obtaining responses against
each statement and they were abbreviated as follows:

- Strongly Agree (SA)
- Agree (A)
- Undecided (U)
- Disagree (D)
- Strongly Disagree (SD).

\[B. \textit{Trial Run}\]

The preliminary questionnaire was mailed to different experts
in the field of physical education for getting their suggestions,
comments, and criticisms to further improve the objectively,
reliability and validity of the prepared questionnaire. The
suggestions, comments and criticisms received from the

\(^2\) Henry E. Garrett, Statistics in Psychology and Education, Vakils, Feffer
experts were utilized in weeding out ambiguity, biased statements, reformation of questions, adding of new statements and deleting of un-useful statements. The suggestions were incorporated and the questionnaire was once again typed out neatly and was than administered to the four Vice-chancellors of universities of Rajasthan state. They were requested to respond to the prepared questionnaire. Their suggestions and criticisms were also invited. These suggestion were incorporated.

C. **Tabulation**

The results of the trial run was tabulated which indicated that there was a need of shortening of questionnaire to a manageable portion and also for inclusion of couple of statements which were not included in the trial run as suggested by the experts of physical education and Vice-chancellors of Rajasthan State who served as subjects for trial run.

D. **Re-writing and second trial run of the questionnaire.**

On the basis of the information and suggestions obtained and invaluable guidance of supervisor and other experts of the
field, the questionnaire was given final shape and after deleting 26 statements, 124 statements were finally retained and then typed out and were administered for the second time on different respondents. The questionnaire was appreciated for its contents, simplicity, designing, space for answers, logical sequence and clarity. The researcher had taken care for better appearance of the questionnaire.

The questionnaire consisted of a cover page, which stated the confidential nature and purpose of the study along with name and address of the investigator. Second page included a brief covering letter with significance of the study and request for cooperation from respondents. A total of 124 statements were presented from the page number three. The last page of the questionnaire was designed for collecting information like name, address and qualification of respondents.

The 124 (one hundred and twenty four) statements were grouped under different aspects of physical education, which are presented in table NO. 01 along with respective serial numbers.
Table – 1

Different aspects of questionnaire and the number of statements included under each aspect of physical education and sports.

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Aspect of Questionnaire</th>
<th>Total No. of Statements</th>
<th>Sr. no. of Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Objective related</td>
<td>06</td>
<td>01 to 06</td>
</tr>
<tr>
<td>2.</td>
<td>Mental and emotional well-being</td>
<td>16</td>
<td>07 to 22</td>
</tr>
<tr>
<td>3.</td>
<td>Neuromuscular coordination</td>
<td>04</td>
<td>23 to 26</td>
</tr>
<tr>
<td>4.</td>
<td>Aims related</td>
<td>14</td>
<td>27 to 40</td>
</tr>
<tr>
<td>5.</td>
<td>Responsibilities of physical education personnel related</td>
<td>21</td>
<td>41 to 61</td>
</tr>
<tr>
<td>6.</td>
<td>Child growth related</td>
<td>15</td>
<td>62 to 76</td>
</tr>
<tr>
<td>7.</td>
<td>Ageing process related</td>
<td>09</td>
<td>77 to 85</td>
</tr>
<tr>
<td>8.</td>
<td>Female related</td>
<td>15</td>
<td>86 to 100</td>
</tr>
<tr>
<td>9.</td>
<td>Society related</td>
<td>10</td>
<td>101 to 110</td>
</tr>
<tr>
<td>10.</td>
<td>Posture and Hygiene related</td>
<td>03</td>
<td>111 to 113</td>
</tr>
<tr>
<td>11.</td>
<td>Psychological qualities related</td>
<td>11</td>
<td>114 to 124</td>
</tr>
</tbody>
</table>
Administration of the questionnaire

The administration of questionnaire was done by mailing the prepared questionnaire to all the Vice-chancellors of Asian universities on the basis of mailing list of Association of Indian Universities, New Delhi and yearbook 1999 of World Universities.

The researcher personally visited foreign universities of Hong Kong, Bangkok, Busan, Seoul and different universities of India.

The research scholar explained the basic objective of study to the subjects during his personal meeting with the Vice-chancellors. Due to personal contacts and repeated sincere efforts of the research scholar, thirteen Vice-chancellors of foreign universities and 71 Vice-chancellors of Indian universities answered the questionnaire.

Statistical Technique Used for Analysing Data

The information obtained from the responses against the questionnaires was carefully and systematically compiled for data analysis. The percentage analysis of frequencies of each statement were calculated separately for Indian and foreign Vice-chancellors.