Chapter III

PROCEDURE

In this chapter procedure adopted for the selection of subjects, construction of questionnaire, steps adopted in development of questionnaire, administration of the questionnaire, method used for collection of data and statistical method used for analysing the data have been described.

Selection of Subjects

A total of two thousand general education teachers and physical education teachers were selected as the subjects for the study. All the subjects were divided into two groups, each group comprising one thousand general teacher and one thousand physical education teacher. Only science teachers were selected from the general teachers and all the teachers were permanent approved staff at the government recognised high schools of three adjacent districts namely Bankura, Purulia and Midnapore in West Bengal.
Construction of Questionnaire

The questionnaire was prepared with great care in consultation with the guide and other experts in this field. Guidelines for developing questionnaire were obtained from the standard questionnaire prepared by Brooks and Brooks.¹ Both the questionnaires were modified according to Indian situation. The questions were short, clear, direct and simple. At first 20 questions were drafted in 'Knowledge of Human Structure' and 50 questions in the 'Health Knowledge and Practices' questionnaire and these were handed over to the Heads of concerned faculties. A lot of modifications was made according to the suggestions received from respective Heads. Finally, 11 questions were retained in 'Knowledge of Human Structure' and 31 in the 'Health Knowledge and Practices Questionnaire'.

Development of Questionnaire

The following procedure was adopted for developing the questionnaire.

¹ Stewart M. Brooks and Natalie A. Brooks, Turner's Personal and Community Health Appraisal Form (Saint Louis: The C.V. Mosby Company, 1983).
Initial Writing

In the first attempt several questions were formulated in both the questionnaire and afterwards some questions were changed from time to time according to the opinion of the experts before final draft was made.

Trial Run

After having formulated the questionnaire to the satisfaction of the investigator with the inclusion of all essential items in an organised and logical manner, the next step was implemented for trial run. The purpose of the trial run was to discover whether the meaning of all the questions are clear and adequate to obtain desired information. During the trial run initial questions in the questionnaire were given to the experts in the relevant field with a request to critically evaluate and make suggestions if any, so that the questions prepared would be clear straightforward having no ambiguity.

Re-writing

On the basis of the received suggestions and informations laid down by the respondents, necessary changes were made in the process
of construction of questionnaire and finally it was formulated after the approval of the experts.

**Administration of the Questionnaire**

The questionnaire were administered to general teachers and physical education teachers by the researcher himself and with the help of his colleague, who were well acquainted with the procedure. The subject's credentials were confirmed from the official records of the school.

The respondents were instructed regarding the process to be followed in answering the questions. Each response was to be ticked in the relevant boxes as per their level of knowledge. There are three choices in each item. If the subjects have no or little knowledge regarding the question, response would be in "No Knowledge." If the subject feels he knows something about the topic then answer would be 'Some Knowledge' and if the subject consider that he has sufficient knowledge in the topic answer would be 'Adequate Knowledge'.

It was emphasized that they should tick the response after careful reading of the question and avoid double writing.
The respondents were assured that their information should be true and it will be kept in strictly confidential and be utilised only in research process.

**Method Used for Collection of Data**

For collecting the relevant data from the general teachers, investigator personally visited various schools of Bankura, Purulia and Midnapur district in West Bengal. After receiving the permission from the Headmaster and confirming the status of the subjects from the school records respondents were requested to assemble at the leisure time. The questionnaire were distributed to the subjects and make them aware of the procedure how to response by the research scholar. The remaining few questionnaire were distributed to the subjects at the time of District Science Seminar organised by West Bengal Board of Secondary Education in every district.

The data from physical education teachers were collected at the time of sports meet organised by District School Sports Association and orientation camps organised by the State Youth Welfare Department at Bankura Stadium, West Bengal.
**Statistical Method Used**

To compare the knowledge of human structure, health knowledge and practices of general teachers and physical education teachers 'chi square' was used. The level of significance was set at .05.