

quantum teaching in the English teaching learning process, especially of the teacher use quantum learning method. The writer formulated the techniques in data collection: they were an observation and an interview.

1. Instrument

Instrument is tool and facilitator used researcher in data collection so researcher easier, complete and good of result.²² The researcher is the key instrument so that the researcher herself was the key instrument.²³ The researcher make focuses the function to change informant data source and do data accumulation, data analysis so make conclusion with confluence. The instrument of choice in naturalistic inquiry is the human. It is can be shall that other forms of instrumentation may be used in later phases of the inquiry, but the human is the initial and continuing mainstay. Variation of instrument is observation and interview indication.²⁴ So the researcher uses observation indication and interview indication to the research.

2. Observation

In the observation technique the writer use observation social situation with the object place, actors, and activity.²⁵ The writer observed place is school use quantum learning method, actors its means they were the teacher's and the variety of teaching aids used by teacher and how it can be implemented smoothly, and activity is activity in the classroom when the

²² Suharsimi Arikunto. *Prosedur Penelitian.*, (Jakarta : Rieneke Cipta, 2006).page : 160

²³ Sugioyono; *Metode Penelitian Kuantitatif Kualitatif dan R&D*, (Bandung : Alfabeta 2008).page : 223

²⁴ Ibid : 160

²⁵ Spradly James. *Participant Observation*, (Holt :Rinehart and Winston 1980).page 229

exchange information and idea thought question and responses,²⁷ so resulting in communication and joint construction of meaning about a particular topic.

The question of the interviewer could change and develop according to the answer of the interviewer.²⁸ Interviewing provide the researcher a means to gain a deeper understanding of how the participant interprets situation or phenomenon that can be gained thought observation alone. In this technique, the writer interviewed the teacher related with the teacher's and the student's activities, when quantum teaching was implementing. It was done because the observation was not clear enough.

F. Data Analysis

Data analysis is the process of systematically searching and arranging the interview transcript field note and other materials that you can accumulate to increase your own.²⁹ Understanding of them and to enable you to present what you have discovered to other. In analyzing the data the writer coming from the teacher. The writer analyzed the data that had been collected in the descriptive analysis and the qualitative manner, in the form of words, phrases and sentence, and also comment. The researcher read the teachers answers from the questioner. the teacher would gain the English teachers about the understanding about Quantum Learning Method principle of Quantum

²⁷ Esterberg ,kristin G ; *Qualitative Methods in Social Research* . (New York :.Mc Graw Hill 2002) page :231

²⁸ Susan Stainback ; Wiliam Stainback ; *Understanding & Conducting Qualitative Research*, (Pubuque Iowa : Kendall / Publishing Company 1988).page : 227

²⁹ Bogdan , Robert L : *biklen knopp sari ; Qualitative research for education ; An Introdution to Theory Methods*. (Boston London: Allyn and Bacon 1982). page : 244

