

UNIVERSITY OF CAPE COAST



DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

INF399

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QUIZ 2

1. a. Ontology
- b. Epistemology

2. a. interpretivism

3. a. probability

b non probability.

4a. primary observation

b. secondary observation

c. Exponential Data

5. No, A sample of 500 volunteers is not reliable for the population of 2,500. The sample size is too small to be representative of the population, and the fact that the sample consists of volunteers means that it is not a random sample. A sample of 500 people is only 20% of the population, which is not enough to be confident that the results of the survey will be accurate.

6. a. Gather the telephone directory for Cape Coase and identify all the adult residents who are listed.

b. Assign a unique number to each adult resident.

c .Use a random number generator to generate a random sample of numbers.

d. The adult residents who correspond to the randomly generated numbers will be included in the sample.

7. The sampling interval is the number of units you need to skip before selecting the next unit for your sample. In this case, the population size is 1,500 employees and the sample size is 300 employees. So, the sampling interval is $1,500 / 300 = 5$. If the number 8 was your first randomly drawn number, the first 5 numbers of your sample would be 8, 13, 18, 23, and 28.

