Question 1

When a person collects information from the entire population, this is called a \_\_\_\_\_\_\_\_\_\_\_\_\_.

a. parameter

b. statistic

c. census

d. sample

Question 2

A person has decided to code a particular set of sales data. A value of 0 is assigned if the sales occurred on a weekday, and a value of 1 means it happened on a weekend. This is an example of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

a. ordinal level data.

b. interval level data.

c. ratio level data.

d. nominal level data.

Question 3

Simon Arnett, Director of Human Resources, is exploring the causes of employee absenteeism at Buderim Bottling during the last operating year (1January 2005 to 31December 2005). The average number of absences per employee, calculated from the personnel data of all employees, is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

a. sample

b. statistic

c. parameter

d. population

Question 4

Simon Arnett, Director of Human Resources, is exploring the causes of employee absenteeism at Buderim Bottling during the last operating year (1 January 2005 to 31 December 2005). Personnel records of 50 employees are selected for analysis. (The plant employs 250.) For this study, the average number days absent for these 50 employees is a

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

a. parameter

b. population

c. sample

d. statistic

Question 5

On Saturdays, cars arrive at David Zen's Scrub and Shine Car Wash at the rate of 80 cars per hour during a ten-hour shift. David wants a sample of 40 Saturday customers to answer the Vider version of his quality service questionnaire. He randomly selects 9 as a starting point and instructs the crew to select the 9th customer and each customer at intervals of 20 (9, 29, 49, etc.). His sample is a \_\_\_\_\_\_\_\_\_\_.

a. simple random sample.

b. convenience sample.

c. systematic sample.

d. stratified sample.

Question 6

Claudia Taylor, Director of Global Industrial Sales in Melbourne, is concerned by a deteriorating sales trend. Specifically, the number of customers is stable at 1500 but they are purchasing less each year. She orders her staff to search for causes of the downward trend by surveying all 1500 industrial customers. One question on the survey asked the customers: How many people does your company employ:

- 0-25

- 26-100

- 101-1000

- 1001+

The measurement level for this question is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

a. nominal level.

b. ordinal level.

c. ratio level.

d. interval level.

Question 7

The directory or map from which a sample is taken is called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

a. frame

b. population

c. profile

d. census

Question 8

A restaurant's sales (in dollars) is an example of what level of data measurement?

a. Interval.

b. Ratio.

c. Ordinal.

d. Nominal.

Question 9

A question in a survey of computer users asked 'Which operating system do you use most

often: (a) Apple OSX, (b) Linux, (c) MS Window XP, (d) Unix'. The measurement level for this question is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

a. interval level.

b. ordinal level.

c. nominal level.

d. ratio level.

Question 10

Morningstar Mutual Funds analyses the risk and performance of mutual funds. Each mutual fund is assigned an overall rating of one to five stars. One star is the lowest rating, and five stars is the highest rating. This level of measurement is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

a. ordinal.

b. interval.

c. ratio.

d. nominal.

Question 11

With \_\_\_\_\_\_ random sampling, there is homogeneity within a subgroup or stratum.

a. stratified

b. cluster

c. simple

d. judgmental

Question 12

If every unit of the population has the same probability of being selected to the sample, then the researcher is probably conducting \_\_\_\_\_\_\_.

a. equivalent sampling

b. random sampling

c. nonrandom sampling

d. judgement sampling

Question 13

Which type of data are normally used with parametric statistics?

a. Interval and ordinal.

b. Interval and ratio.

c. Nominal and ordinal.

d. Ratio and ordinal

Question 14

Jessica Salas, Managing Director of Salas Products, is reviewing the warranty policy for her company's new model of car batteries. Life tests performed on a sample of 100 batteries indicated an average life of seven years under normal conditions. Jessica recommended a six year warranty period for the new model. This is an example of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

a. nominal data.

b. nonparametric statistics.

c. inferential statistics.

d. descriptive statistics.

Question 15

Penny Bauer, Chief Financial Officer of Harrison Haulage, suspects irregularities in the payroll system, and orders an inspection of 'each and every payroll voucher issued since 1 January 2005'. Five per cent of the payroll vouchers contained material errors. This is an example of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

a. nominal data.

b. descriptive statistics.

c. inferential statistics.

d. nonparametric statistics.

Question 16

Which scale of measurement has these two properties, linear distance is meaningful and the location of origin (zero) is absolute (natural)?

a. Ordinal level.

b. Nominal level.

c. Interval level.

d. Ratio level.

Question 17

Penny Bauer, Chief Financial Officer for Harrison Haulage, suspects irregularities in the payroll system. She knows that 2500 payroll vouchers have been issued since 1 January 2005, and her staff doesn't have time to inspect each voucher. So, she orders her staff to inspect the last 200 vouchers. Her sample is a \_\_\_\_\_\_\_\_\_\_\_.

a. systematic sample.

b. simple random sample.

c. stratified sample.

d. convenience sample.

Question 18

Financial analyst Ben Taimana needs a sample of 100 securities listed on the New Zealand Stock Exchange. In the current issue of the NZ Investing Journal, 2531 securities are listed in the Composite Transactions, an alphabetical listing of all securities traded on the previous business day. Ben uses a table of random numbers to select 100 numbers between 1 and 2531. His sample is a \_\_\_\_\_\_\_\_\_\_\_\_.

a. stratified sample.

b. simple random sample.

c. systematic sample.

d. quota sample.

Question 19

A statistics instructor collects information about the background of his students. About 30% have taken economics and about 40% have taken accounting. There are 23 male students and 27 female students in this class. This is an example of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

a. inferential statistics.

b. descriptive statistics

c. nonparametric statistics.

d. nominal data.

Question 20

Kristen Ashford purchased the subscribers list for Wind Surfing Journal. She plans to survey a sample of the subscribers before using the list in her mail-order business. She randomly selects the fourth name as a starting point and then selects every 50th subsequent name (54, 104, 154, etc.). Her sample is a \_\_\_\_\_\_\_\_\_.

a. stratified sample

b. systematic sample

c. convenience sample

d. sample random sample