

D.K.M.COLLEGE FOR WOMEN (AUTONOMOUS)
APTITUDE TEST

course of a year there are lots of possible confounding variables.

- c) It cannot be concluded that the difference in activity caused a difference in the change in blood pressure because it might be the opposite, that people with high blood pressure were more likely to read a book than to walk.
- d) It can be concluded that the difference in activity caused a difference in the change in blood pressure because of the way the study was done.

18. What is one of the distinctions between a population parameter and a sample statistic?

- a) A population parameter is only based on conceptual measurements, but a sample statistic is based on a combination of real and conceptual measurements.
- b) A sample statistic changes each time you try to measure it, but a population parameter remains fixed
- c) A population parameter changes each time you try to measure it, but a sample statistic remains fixed across samples.
- d) The true value of a sample statistic can never be known but the true value of a population parameter can be known.

19. A magazine printed a survey in its monthly issue and asked readers to fill it out and send it in. Over 1000 readers did so. This type of sample is called

- a) a cluster sample.
- b) a self-selected sample.
- c) a stratified sample
- d) a simple random sample

20. Which of the following would be most likely to produce selection bias in a survey?

- a) Using questions with biased wording.
- b) Only receiving responses from half of the people in the sample.
- c) Conducting interviews by telephone instead of in person.
- d) Using a random sample of students at a university to estimate the proportion of people who think the legal drinking age should be lowered.

21. A polling agency conducted a survey of 100 doctors on the question "Are you willing to treat women patients with the recently approved pill RU-486"? The conservative margin of error associated with the 95% confidence interval for the percent who say 'yes' is

- a) 50%
- b) 10%
- c) 5%
- d) 2%

22. Which one of these statistics is unaffected by outliers?

- a) Mean
- b) Interquartile range

