

تعداد سوالات: تستی: ۲۰ تشریحی: ۲
زمان آزمون: تستی: ۶۰ تشریحی: ۶۰ دقیقه
آزمون نمره منفی دارد ○ ندارد ⊗

نام درس: زبان تخصصی
رشته تحصیلی، کد درس: آمار (۱۱۱۷۰۳۰)

مجاز است.

استفاده از: —

کد سری سؤال: یک (۱)

امام علی^(ع): شرافت به خرد و ادب است نه به دارایی و نژاد.

A: Choose the correct item (a, b, c or d) for each sentence to complete its meaning according to passage.

1. are neither absolutes nor truth.

- a. sample b. statistics c. population d. block

2. Reasoning from the general to the specific is

- a. Induction b. data c. deductive d. calculation

3. The sum of all frequencies is

- a. Bell shape b. sample size c. population size d. sample

4. A shape is parallelogram.

- a. Block b. rectangular
c. symmetrical distribution d. category

5. Which chart is used for qualitative data?

- a. polygon b. Histogram c. steam and leaf d. pie chart

6. The most frequently obtained score in the data is called

- a. mean b. median c. variance d. mode

7. The mean is inappropriate for data .

- a. Ratio b. Ordinal c. interval d. scale

8. Although you have a symmetrical distribution of interval or ratio data, you have to use a median when

- a. there are open- ended categories b. highest intervals are limited.
c. lowest scores are limited d. there are skewed distribution

9. The square of standard deviation is

- a. coefficient b. mean c. variance d. range

10. Raw scores less than the mean have Z-score.

- a. positive b. negative c. average d. normal

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11. A/An is any collection of outcomes of an experiment.

- a. Event b. occur c. sample space d. random

12. The coefficient of $x^p y^q$ in the expansion of $(x + y)^r$ is equal

- a. 4 b. 6 c. 3 d. 1

13. A trial has two outcomes.

- a. negative binomial process b. Bernoulli
c. sample space d. random

14. The relationship between two variables is strong, when

- a. the simple pattern is quite common.
b. the points are near the straight- line.
c. the direction and strength are difference.
d. the points are widely scattered.

15. This statistical formal terms; $H_0 : \mu_1 = \mu_2$ is referred to as

- a. null hypothesis b. alternative hypothesis
c. expected conclusion d. unexpected conclusion

16. An entire group of different types of multiple mean comparisons is called

- a. Moment b. Assign
c. power of test d. Analysis of variance

17. Rejection of the alternative hypothesis when it is true.

- a. type I error b. type II error
c. power of test d. homogeneity

18. Fisher discusses about the dependent variable.

- a. null hypothesis, normality, homogeneity
b. homogeneity, random sampling , distribution
c. normality , measurement , random sampling
d. normality , random sampling , homogeneity

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19. A/An trial has two outcomes.

- a. Normal b. Binomial c. Poisson d. Exponential

20. Regression means:

- a. Foretell b. curvature c. return d. straight line

B: Write the meaning of the following words in English.(4 points)

- | | |
|-----------------|-----------------|
| B1. Deductive | B6. Random |
| B2. Block | B7. Independent |
| B3. Extreme | B8. Outlying |
| B4. Variance | B9. Power test |
| B5. Approximate | B10. Axis |

C: Translate the following text into Farsi:(4 points)

C1. Stochastic processes are characterized by the dependence relationships among their variables. This property expresses a relation that occurs in numerous contexts and has become a basic tool in both theoretical and applied probability.

C2. To find the probability of "woman" in the revised lottery, we would have to redefine the elementary events to be slips rather than names. We could then divide the number of slips bearing female names by the total number of slips.