



قائمة الاسئلة 2025-05-24 05:46

إحصاء طبي-المستوى الثاني-جميع التخصصات-كلية الطب والعلوم الصحية-درجة الامتحان(60)

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- 1) The following is a reason to study biostatistics
 - 1) - generalizing from samples to populations
 - 2) ☒ find out the basic factors underlying the health problems
 - 3) - just for extra knowledge
 - 4) - none
- 2) The length of a leaf is a
 - 1) - discrete variable
 - 2) ☒ continuous variable
 - 3) - qualitative variable
 - 4) - all mentioned
- 3) The class width is given by the range divided by
 - 1) - number of given values
 - 2) - highest value
 - 3) - lowest value
 - 4) ☒ number of suggested classes
- 4) The sum of all relative frequencies should be
 - 1) ☒ one
 - 2) - n
 - 3) - 100
 - 4) - 360
- 5) A circle which is divided into sections according to the percentage (or degree) of the frequency in each category of the distribution is the
 - 1) - Histogram graph
 - 2) - Polygon graph
 - 3) - Ogive graph
 - 4) ☒ Pie graph
- 6) The summation of the data values divided by the number of such values gives their
 - 1) ☒ mean
 - 2) - median
 - 3) - mode
 - 4) - range
- 7) The median can be obtained for
 - 1) - continuous numerical data
 - 2) - discrete numerical data
 - 3) - ordered qualitative data
 - 4) ☒ all mentioned
- 8) The most affected measure by extremely high or low values is the
 - 1) ☒ mean
 - 2) - median
 - 3) - mode
 - 4) - quartiles
- 9) Which measure of the following consider the highest and the lowest values only
 - 1) ☒ range
 - 2) - median
 - 3) - mode



- 4) - mean
- 10) The most repeated value is the
- 1) - mean
 - 2) - median
 - 3) ☒ mode
 - 4) - range
- 11) Which one of the following central tendency measure should be unique?
- 1) - Mean.
 - 2) - Median.
 - 3) - Quartiles.
 - 4) ☒ All mentioned.
- 12) Given the following data: 30, 26, 30, 25, 23, 41, 36, 35, 24. Then 30 is its
- 1) - mean
 - 2) - median
 - 3) - mode
 - 4) ☒ all mentioned
- 13) If a student got 90, 96, 86, 91, 65 in five subjects and the academic hours for each subject is 4, 3, 3, 2, 2 respectively. Then the weighted mean for these grades is
- 1) - 85
 - 2) ☒ 87
 - 3) - 89
 - 4) - 91
- 14) Given 5 classes grouped data with 5 class width. If the lower limit for the first class is 83 and the frequencies are 7, 10, 20, 10, 13 for the first class to the last class respectively. Then the mode is
- 1) - 80
 - 2) - 85
 - 3) - 90
 - 4) ☒ 95
- 15) The mode can be obtained graphically via
- 1) ☒ Histogram graph
 - 2) - Polygon graph
 - 3) - Ogive graph
 - 4) - Pie graph
- 16) Which of the following statements about standard deviation is true?
- 1) - A small standard deviation always indicates a symmetric distribution.
 - 2) - Standard deviation is unaffected by extreme values.
 - 3) ☒ If the standard deviation is zero, then the given values are equal.
 - 4) - None.
- 17) Which one of the following measures is not a measure of central tendency:
- 1) - mean
 - 2) - median
 - 3) ☒ range
 - 4) - mode
- 18) The following are measures of variation:
- 1) - range
 - 2) - variance
 - 3) - standard deviation
 - 4) ☒ all mentioned
- 19) The coefficient of variation is given by



- 1) ☒ standard deviation divided by mean and multiplied by 100
 - 2) ☐ standard deviation divided by median and multiplied by 100
 - 3) ☐ standard deviation divided by mode and multiplied by 100
 - 4) ☐ standard deviation divided by range and multiplied by 100
- 20) The square root of the variance gives
- 1) ☐ range
 - 2) ☒ standard deviation
 - 3) ☐ mean deviation
 - 4) ☐ quartile deviation
- 21) If the coefficient correlation of the relationship between two variables is zero, then correlation between these variables is
- 1) ☐ perfect positive
 - 2) ☐ perfect negative
 - 3) ☒ no correlation
 - 4) ☐ none
- 22) The following types of sampling methods are probability samples:
- 1) ☐ simple random sample
 - 2) ☐ systematic sample
 - 3) ☐ cluster sample
 - 4) ☒ all mentioned
- 23) Which one of the following sample methods is a non-probability sample?
- 1) ☐ Simple random sample.
 - 2) ☐ Stratified sample.
 - 3) ☒ Judgement sample.
 - 4) ☐ All mentioned.
- 24) If the standard deviation of a given data is 35 and the sampling error is ± 8 , then the sample size with 95% confidence is
- 1) ☐ 54
 - 2) ☐ 64
 - 3) ☒ 74
 - 4) ☐ none
- 25) Which one of the following is not a factor that influences the required sample size?
- 1) ☐ Method of sampling.
 - 2) ☐ Standard deviation.
 - 3) ☐ Confidence level.
 - 4) ☒ Color of the data chart.
- 26) The following are properties of the alternative hypothesis:
- 1) ☐ represents the current belief in a situation
 - 2) ☐ refers to a specified value for a population
 - 3) ☐ contains an equal sign always
 - 4) ☒ none
- 27) $z_{\alpha/2}$ value for 99% confidence is
- 1) ☐ 1,55
 - 2) ☐ 1,78
 - 3) ☐ 1,96
 - 4) ☒ 2,58
- 28) In the unimodal data if the frequency polygon is twisted to the right, then
- 1) ☒ the mean is greater than or equals to the mode
 - 2) ☐ the mean is less than or equals to the mode



- 3) - the mean and the mode must be equal
4) - none
- 29) The third quartile of 12, 18, 15, 9, 11, 28, 14 is
1) - 8
2) - 9
3) - 11
4) ☒ + 18
- 30) The quality control manager at a medical devices factory needs to estimate the mean lifespan of a larger shipment of blood pressures devices. If the standard deviation is 500 days and a random sample of 25 devices indicated a sample mean lifespan of 2500 days, then the 90% confidence interval estimate for the population mean lifespan of the devices in this shipment is:
1) ☒ + [2335,2665]
2) - [2000,2520]
3) - [2480,2785]
4) - none
- 31) Which one of the following sampling methods requires a large sample size?
1) - .Convenience sample methods
2) - .Judgment sample methods
3) ☒ + .Systematic sample methods
4) - .All mentioned
- 32) The number of students at the medical collage is
1) - continuous variable.
2) ☒ + .discrete variable
3) - qualitative variable.
4) - .none
- 33) The cumulative frequency of the uppermost class should be
1) - one
2) ☒ + n
3) - 100
4) - 360
- 34) The relative frequency of a class is given by
1) ☒ + class frequency divided by n
2) - class frequency multiplied by n
3) - class limits divided by n
4) - none
- 35) Which of the following sampling methods is most appropriate when the population has distinct subgroups and the researcher wants proportional representations?
1) - Simple random sampling method.
2) - Systematic sampling method.
3) ☒ + Stratified sampling method.
4) - All mentioned.
- 36) Given 6 classes grouped data with 5 class width. If the lower limit for the first class is 25 and the frequencies are 12, 8, 20, 10, 6, 4 for the first class to the last class respectively. Then the median is
1) - 27
2) - 32
3) ☒ + 37
4) - none
- 37) If a sample of some breakfast cereals indicates a sample mean of the amount of sugar 6.8grams and a standard deviation 3.4grams, then the percentage of the coefficient of variation of the amount of sugar is



- 1) ☒ + 50
2) ☐ - 60
3) ☐ - 70
4) ☐ - 80
- 38) Which situation best justifies using the median instead of the mean to describe a dataset?
- 1) ☐ - Data are collected from a large, symmetrical population.
2) ☒ + The data include extreme high or low values.
3) ☐ - The sample size is less than 40.
4) ☐ - None.
- 39) The value that occurs in the middle of the ordered data array is the
- 1) ☐ - mean
2) ☒ + median
3) ☐ - mode
4) ☐ - range
- 40) The equation of regression line $y = -3.5x + 101.5$ describes the relationship between the final grades (y variable) of a sample of some students and their absence days (x variable). If Ahmed has 3 absence days then his final grade is approximately
- 1) ☐ - 71
2) ☐ - 81
3) ☒ + 91
4) ☐ - 100