

Q.1 Chi square distribution is the distribution of the

- Squared Deviates
- Squared Means
- Squared Variances

Hide Options

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Q.2 A chi squared random variable takes values between

- 0 and infinity
  - 0 and 1
  - -1 and 1
  - 1 and infinity
- 

Q.3 Mean of a chi square distribution is degrees of freedom and the Variance is  $2 \times (\text{degrees of freedom})$ .

- True
  - False
- 

Q.4 The degrees of freedom are given by

- $(\text{number of classes}) + 1 + (\text{number of parameters being estimated from sample data})$
  - $(\text{number of classes}) - 1 + (\text{number of parameters being estimated from sample data})$
  - $(\text{number of classes}) - 1 - (\text{number of parameters being estimated from sample data})$
- 

Q.5 The goodness of fit test is based on

- Apriori Test
  - Posteriori Test
  - Hypothesis Test
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Q.6 The ANOVA is a statistical approach for determining whether or not

- the means of two samples are equal
- the means of two or more samples are equal
- the means of more than two samples are equal
- the means of two or more populations are equal

Q.7 Chi square goodness of fit test

- does not work on Binomial, Poisson distributions
- works on Binomial, Poisson and Normal distribution
- works on Normal distribution only

Q.8 As variability due to chance decreases, the value of F will

- increase
- decrease
- stays the same
- can't tell from the given information

Q.9 If the sample means for each of k treatment groups were identical (yes, this is extremely unlikely), what would be the observed value of the ANOVA test statistic?

- 1
- 0
- A value between 0 and 1
- A negative value
- Infinity

Q.10 Correlation refers to the causal relationship between two variables.

- True
- False

Q.11 A Frankie seller collected 100 customer's data to understand the influence of gender on selecting 3 types of his food products. Which of the below test is applicable?

- Chi-square: Goodness of fit
- Chi-square: Independence of attributes
- ANOVA

Q.12 One of the participant in elections from a constitution wants to understand his result by comparing his expected frequencies with a sample survey result. Which of the below test is applicable?

- Chi-square: Goodness of fit
- Chi-square: Independence of attributes
- ANOVA

Q.13 A National Basket Ball team selections committee wants to understand that, Is there any significant difference in the heights of the players of the selected 5 teams. Which of the below test is applicable?

- Chi-square: Goodness of fit
- Chi-square: Independence of attributes
- ANOVA
- Answer Choice 4

Q.14 An ANOVA procedure is applied to data obtained from 6 samples where each sample contains 20 observations. The degrees of freedom for the critical value of F are

- 6 numerator and 20 denominator dof
- 5 numerator and 114 denominator dof
- 5 numerator and 20 denominator dof

- 6 numerator and 20 denominator dof
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