# Multiple Choice Questions

# Total Questions:32

# Mark per question:1

# Time: 40 mins

2 5 1

3. 4 2

1. What is the size of following matrix A =

a) 2 x 3­­  
b) 3 x 2  
c) 2 x 2  
d) none of the above

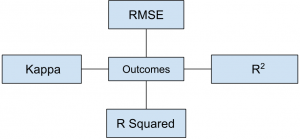
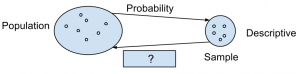
1. The square root of the variance is called the \_\_\_\_\_\_\_\_ deviation.  
   a) empirical  
   b) mean  
   c) Continuous  
   d) standard
2. If three letters are to be put in three addressed envelopes randomly, the probability that none of the letters are in the correct envelope is :
3. 0
4. 1/3
5. 1/6
6. ½
7. If two matrices have shape (2 x 3) and (3 x 4) what will be the output shape of their matrix multiplication
8. 2 x 1
9. 2 x 4
10. 4 x 2
11. None of the above
12. Which of the following best describes middle part of group of numbers ?
    1. Measure of Variability
    2. Measure of Central Tendency
    3. Measure of Association
    4. Measure of Dispersion
13. The sum of the deviations about the mean is always ?
    1. Positive
    2. Zero
    3. Negative
    4. Cannot say
14. The middle value of an ordered array of numbers is ?
    1. Mean
    2. Median
    3. Mode
    4. Range
15. Which is not a measure of central tendency ?
    1. Mean
    2. Percentile
    3. Mode
    4. Standard Deviation
16. If standard deviation of a population is 9, then its variance is
    1. 81
    2. 21
    3. 18
    4. None of the above
17. The Number of accidents in a city is
    1. Discrete Variable
    2. Continuous Variable
    3. Categorical Variable
    4. Nominal Variable
18. Age of a human is what type of variable ?
    1. Discrete Variable
    2. Continuous Variable
    3. Categorical Variable
    4. Nominal Variable
19. Colour of Car is what type of variable ?
    1. Discrete Variable
    2. Continuous Variable
    3. Categorical Variable
    4. Cant Say
20. If occurrence of one event means another event cannot occur is called ?
    1. Independent
    2. Mutually Exclusive
    3. Empirical
    4. Bayesian
21. If a card is chosen from a standard deck what is the probability that 4 or 7 is chosen
    1. 8/52
    2. 4/52
    3. 1/52
    4. 0
22. Joint probability of independent events is given by
    1. P(A&B) = P(A) \* P(B)
    2. P(A or B) = P(A) \* P(B)
    3. Both could be correct
    4. None of the above
23. Joint Probability is
    1. Likelihood that 2 events happening together
    2. Likelihood that one event will not occur if other has occurred
    3. Based on two mutually exclusive events
    4. None of the Above
24. Probability of occurrence of an event ranges between
    1. 0 to 1
    2. -1 to 1
    3. - Inf to + inf
    4. 0 to + inf
25. Point out the correct statement:  
    a) Raw data is original source of data  
    b) Pre-processed data is original source of data  
    c) Raw data is the data obtained after processing steps  
    d) None of the Mentioned
26. Which of the following is one of the key data science skill ?  
    a) Statistics  
    b) Machine Learning  
    c) Data Visualization  
    d) All of the Mentioned
27. Point out the correct statement:  
    a) The mean is a measure of central tendency of the data  
    b) Empirical mean is related to “centring” the random variables  
    c) The empirical standard deviation is a measure of spread  
    d) All of the Mentioned
28. Which of the following implies no relationship between variables X & Y with respect to correlation ?  
    a) Cor(X, Y) = 1  
    b) Cor(X, Y) = 0  
    c) Cor(X, Y) = 2  
    d) All of the Mentioned
29. Normalized data are centred at \_\_\_ and have units equal to standard deviations of the original data.  
    a) 0  
    b) 5  
    c) 1  
    d) 10

2 5 1

3. 4 2

1. What is the shape of transpose of matrix A =

a) 3 x 2  
b) 2 x 3  
c) 4 x 1  
d) None of the above

1. Which of the following outcome is odd man out in the below figure ?  
   [](https://www.sanfoundry.com/wp-content/uploads/2015/10/data-science-questions-answers-introduction-regression-models-q9.png)  
   a) R Squared  
   b) Kappa  
   c) RMSE  
   d) All of the Mentioned
2. Point out the correct statement :  
   a) Descriptive analysis is first kind of data analysis performed  
   b) Descriptions can be generalized without statistical modelling  
   c) Description and Interpretation are same in descriptive analysis  
   d) None of the Mentioned
3. Which of the following is common goal of statistical modelling ?  
   a) Inference  
   b) Summarizing  
   c) Sub setting  
   d) None of the Mentioned
4. Which of the following analysis should come in place of question mark in the below figure ?  
   [](https://www.sanfoundry.com/wp-content/uploads/2015/10/data-science-quiz-online-q9.png)  
   a) Inferential  
   b) Exploratory  
   c) Causal  
   d) None of the mentioned
5. Which of the following graph can be used for simple summarization of data ?  
   a) Scatterplot  
   b) Overlaying  
   c) Bar plot  
   d) All of the Mentioned
6. Colour and shape are used to add dimensions to graph data.  
   a) True  
   b) False
7. Which of the following information is not given by five-number summary ?  
   a) Mean  
   b) Median  
   c) Mode  
   d) All of the mentioned
8. Which of the following is correct order of working ?  
   a) questions->input data ->algorithms  
   b) questions->evaluation ->algorithms  
   c) evaluation->input data ->algorithms  
   d) all of the Mentioned
9. Which of the following shows correct relative order of importance ?  
   a) question->features->data->algorithms  
   b) question->data->features->algorithms  
   c) algorithms->data->features->question  
   d) none of the Mentioned