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Statistics Mcqs Paper 2013

- **Statistics Mcqs Paper 2013**
- 1. Two mutually exclusive events are also:
 - (a) Dependent events (b) Independent events (c) Exhaustive events (d) None of these
- 2. In which definition of probability, the condition of mutually exclusive and equally likely events is imposed?
 - (a) Subjective approach (b) Relative frequency (c) Classical definition (d) None of these
- 3. In Poisson distribution:
 - (a) Mean > Variance (b) Mean < Variance (c) Mean = Variance (d) None of these
- 4. When sample size n becomes larger and larger and sample estimate tends to the respective population parameter, this property of estimators is called:
 - (a) Unbiasedness (b) Consistency (c) Reliability (d) None of these
- 5. If the voting preference of 100,000 registered voters are to study, what kind of sampling should be used?
 - (a) Simple Random Sampling (b) Quota Sampling (c) Stratified Random Sampling (d) None of these
- 6. If the sampling frame not available then which of the sampling technique could be adopted with ease:
 - (a) Simple Random Sampling (b) Stratified Random Sampling
 - (c) Cluster Random Sampling (d) None of these
- 7. The complete list of the sampling units is called:
 - (a) Sampling Frame (b) Unit List (c) Sample Space (d) None of these
- 8. A cricket captain wins the toss for three consecutive matches. What is the probability that he will call correctly for the fourth match?
 - (a) $1/2$ (b) $1/4$ (c) $1/8$ (d) None of these
- 9. If X has binomial distribution with parameter p and n then the variance of X is:
 - (a) $n pq$
 - (b) np (c) nq
- 11. Which of the following statement is true for Normal distribution?
 - (a) It is skewed to the right (b) It has always a mean of zero and a standard deviation of one
 - (c) Its mean, median and mode are equal (d) None of these
- 12. Which of the following statement is true?
 - (a) The slope coefficient in regression and the correlation coefficient always have the same sign
 - (b) A regression line always passes through origin (c) The correlation coefficient can exceed than 1

- (d) None of these
-
- 13. Testing of hypotheses is a phase to check the validity of:
- (a) Population parameter (b) Sample estimate (c) Population (d) None of these
-
- 14. Any set of outcomes of a random experiments is called:
- (a) Event (b) Event space (c) Sample points (d) None of these
-
- 15. When a difference between two groups is statistically significant this means that:
- (a) The difference is statistically real but of little practical significance
- (b) The difference is probably the result of sampling variation
- (c) The difference is not likely to be due to chance variation (d) None of these
-
- 16. The degree of freedom for two independent samples will be based on:
-
-
- 17. As the sample size increases:
- (a) The standard deviation of the population decreases (b) The population means increases
- (c) The standard error of the mean decreases (d) None of these
-
- 18. With a lower level of significance, the probability of rejecting a true null hypothesis:
- (a) Remains same (b) Increases (c) Decrease (d) None of these
-
- 19. Which one is NOT the characteristic of a random experiment:
- (a) It has at least two outcomes (b) The number of all possible outcomes are not known in advance
- (c) It can be repeated any number of times under similar conditions (d) None of these
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• Statistics Mcqs for Lecturer & Subject Specialist PSC Exam

- If a card is chosen from a standard deck of cards, what is the probability of getting a diamond (♦) or a club(♣)?
A $\frac{26}{52} = \frac{1}{2}$
B $\frac{13}{52}$
C $\frac{20}{52}$
D $\frac{12}{52}$
Question 2
- A listing of the possible outcomes of an experiment and their corresponding probability is called
A Random Variable
B Contingency table
C Bayesian table
D Probability distribution

E Frequency distribution

Question 3

- If you roll a pair of dice, what is the probability that (at least) one of the dice is a 4 or the sum of the dice is 7?A $\frac{4}{36}$
B $\frac{13}{36}$
C $\frac{21}{36}$
D $\frac{15}{36}$

Question 4

- The collection of one or more outcomes from an experiment is calledA Probability
B Event
C Random Variable
D Z-Value
E Random Experiment

Question 5

- Which of the following is not a condition of the binomial distribution?A Only 2 possible outcomes
B have constant probability of success
C must have at least 3 trials
D trials must be independent

Question 6

- Which of the following is not an example of a discrete probability distribution?A The sale or purchase price of a house
B The number of bedrooms in a house
C The number of bathrooms in a house
D Whether or not a home has a swimming pool in it.

Question 7

- If a card is chosen from a standard deck of cards, what is the probability of getting a five or a seven?A $\frac{4}{52}$
B $\frac{1}{26}$
C $\frac{8}{52}$
D $\frac{1}{169}$

Question 8

- If the occurrence of one event means that another cannot happen, then the events areA Independent
B Mutually Exclusive
C Bayesian
D Empirical

Question 9

- In which approach to probability the outcomes are equally likely to occur?A Classical Probability
B Subjective Probability
C Relative Frequency
D Independent

Question 10

- In a Poisson probability distributionA The mean and variance of the distribution are same (equal)
B The probability of success is always greater than 5
C The number of trials is always less than 5
D It always contains a contingency table

Question 11

- In special rule of addition of probability, the events are alwaysA Independent events
B Mutually Exclusive events
C Bayesian
D Empirical

Question 12

- The joint probability isA The likelihood of two events happening together
B The likelihood of an event happening given that another event has already happened

C Based on two mutually exclusive events

D Also called Prior probability

Question 13

- The special rule of multiplication of probability, the events must beA Independent

B Mutually exclusive

C Bayesian

D Empirical

Question 14

- Which of the following is not a correct statement about a probability.A It must have a value between 0 and 1

B It can be reported as a decimal or a fraction

C A value near 0 means that the event is not likely to occur/happens

D It is the collection of several experiments.

Binomial distribution is negatively skewed whenA $p=0$

B $p>1/2$

C $p<1/2$

D $p=-1/2$

E $p=1/3$

Question 2

- Successive trials in binomial distribution areA Dependent

B Independent

C Equally Likely

D Mutually exclusive

E None

Question 3

- If in a binomial distribution $n = 1$ then $E(X)$ isA q

B p

C 0

D 1

Question 4

- In which distribution successive trials are without replacementA Hypergeometric distribution

B Binomial distribution

C Poisson distribution

D Geometric distribution

Question 5

- Hypergeometric distribution has parametersA 2

B 1

C 3

D 4

E No

Question 6

- Binomial distribution has parametersA Three

B Two

C One

D Four

E None

Question 7

- Binomial distribution is symmetrical whenA $p = q$

B $p > q$

C $p < q$

D $np > npq$

Question 8

- A random variable X has binomial distribution with $n = 10$ and $p = 0.3$ then variance of X is A 10
B 12
C 2.1
D 21
E None

Question 9

- The mean of hypergeometric distribution is A $\frac{nk}{N}$
B $N-k$
C $\frac{nN}{k}$
D $\frac{n+k}{N}$

Question 10

- In binomial distribution $n=6$ and $p=0.9$, then the value of $P(X=7)$ is A One
B Less than zero
C Zero
D More than zero

Question 11

- In a binomial probability distribution it is impossible to find A $P(X < 0)$
B $P(X = 0)$
C $P(X > 0)$
D $P(0 \leq X \leq n)$

Question 12

- The mean, median and mode for binomial distribution will be equal when A $p=0.5$
B $p < 0.5$
C $p > 0.5$
D $p = 1$
E None of these

Question 13

- Each trial in Binomial distribution has A One Outcome
B Two Outcome
C Three Outcome
D Four Outcome

Question 14

- A fair coin is tossed four times, the probability of getting four heads is A $\frac{1}{4}$
B $\frac{1}{2}$
C $\frac{1}{16}$
D 1
E 0

Question 15

- Which of the following is not the property of binomial distribution A n is fixed
B has two outcomes
C Trials are independent
D Probability of success varies from trial to trial

Question 16

- The variance of binomial distribution is always A Less than mean
B Equal to mean
C Greater than mean
D Equal to standard deviation
E None of these

Question 17

- The probability of success changes from trial to trial inA Binomial distribution
B Geometric distribution
C Sampling distribution
D Hypergeometric distribution

Question 18

- The mean of binomial distribution isA npq
B np
C npq
—
—
—
√
D np
—
—
√
E nq
—
—
√

Question 19

- In hypergeometric distribution, the trials areA Independent
B Dependent
C Collectively Exhaustive
D None

Question 20

- The successive trials are with replacement inA Hypergeometric distribution
B Binomial distribution
C Geometric distribution
D None of above
- Total Area under the curve in probability of density function isA 0
B -1
C 1
D Infinity

Question 2

- For a random variable X, $E(X)$ isA Harmonic Mean (HM)
B Geometric Mean (GM)
C Arithmetic Mean (AM)
D Non

Question 3

- Probability distribution of a random variable is also known asA Probability
B Probability Function
C Distribution Function
D Probability Distribution
E Probability Density Function

Question 4

- Probability of occurrence of an event lies betweenA -1 and 0
B 0 and 1
C -1 and 1
D exactly 1

Question 5

- What is the probability that a ball drawn at random from a jar?A 0.1
B 1

C 0.5

D 0

E Cannot be determined from given information

Question 6

- For distribution Function $F(X)$, $F(-\infty)=0$ and $F(\infty)=?$ A 0

B -1

C 1

Question 7

- If C is non-random variable, the $E(C)$ is A Zero

B C

C 1

D 2

E None

Question 8

- A discrete probability distribution may be represented by A A table

B A graph

C A mathematical Equation

D All of these

Question 9

- For a probability density function (pdf), the probability of a single point is A 1

B 2

C 0

D Constant

Question 10

- The probability function is always A Negative

B Non Negative

C Positive

D None

Question 11

- The distribution function $F(X)$ is represented by A $P(X=x)$

B $P(X)$

C $P(X>x)$

D $P(X\leq x)$

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• Statistics Mcqs Test

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• Statistics Mcqs Test

- (1) A cricket captain wins the toss for three consecutive matches. What is the probability that he will call correctly for the fourth match?

(a) $1/16$

(b) $1/8$

(c) $1/4$

- (d) $1/2$
 - (e) None of these
- (2) A and B are two independent events. The probability of A is $1/4$ and B is $1/3$. The neither probability of A nor B is:
 - (a) $5/12$
 - (b) $1/3$
 - (c) $3/4$
 - (d) $11/12$
 - (e) None of these
- (3) Which one of the following statement is not true?
 - (a) Mutually exclusive events are statistically dependent.
 - (b) Complementary events have probabilities that sum to 1.
 - (c) Opposite events, are statistically independent.
 - (d) An experiment's elementary events are collectively exhaustive and mutually exclusive.
 - (e) None of these
- (4) For a Poisson distribution with standard deviation equals to 2 then mean of the Poisson distribution equals to:
 - (a) 0
 - (b) 1
 - (c) 2
 - (d) 4
 - (e) None of these
- (5) Which of the following could never be described by the binomial distribution?
 - (a) The number of defective items produced by an assembly process.
 - (b) The amount of water used daily by a single household.
 - (c) The number of people in a class who can answer a particular question correctly.
 - (d) All of these
 - (e) None of these
- (6) The area under the normal curve within two standard deviation of the mean is:
 - (a) 68.26 %
 - (b) 95.44 %
 - (c) 99.73 %
 - (d) 99.99 %
 - (e) None of these
- (7) What information is given by a value of the coefficient of determination?
 - (a) Strength of relationship
 - (b) Both strength and direction of relationship
 - (c) Neither strength nor direction of relationship
 - (d) Direction of relationship only
 - (e) None of these
- (8) A complete list of all the sampling units is called:
 - (a) stratum size
 - (b) unit list
 - (c) sampling frame
 - (d) sample design
 - (e) None of these
- (9) If we decrease Type-I error, Type-II error:
 - (a) Remains same
 - (b) Increases
 - (c) Decreases
 - (d) None of these

- (10) To test of equality of means of paired observations, we use:
 - (a) Chi-Square test
 - (b) t-test
 - (c) F-test
 - (d) Z-test
 - (e) None of these

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