

Statistics Ics Part 1 Chapter 9 Online Test

Sr	Questions	Answers Choice
1	"P" or "q" can not be greater than	A. 1 B. 0 C. 2/3 D. 1/2
2	Binomial distribution has parameter	A. One B. Two C. Three D. Four
3	The parameters of binomial distribution one	A. p and q B. q and n C. n and p D. n,p,q
4	In binomial distribution trials are	A. Independent B. Dependent C. Both D. Discrete
5	The variance of binomial distribution is	A. np B. nq C. npq D. pq
6	A binomial random variable can assume the values	A. 1,2,.....n B. 0,1,2,.....00 C. 0,1,2,.....n D. 2,4,6,8,10
7	The binomial distribution is negatively skewed if	A. $P < 1/2$ B. $P = 1/2$ C. $P > 1/2$ D. $P = 1$
8	In binomial distribution it is impossible to find	A. $P(x < L)$ B. $P(x=0)$ C. $P(x > 0)$ D. $P(0 < x \leq \infty)$
9	In a binomial distribution	A. $\mu = \sigma^2$ B. $\mu < \sigma^2$ C. $\mu > \sigma^2$ D. $\mu = 1$
10	In binomial each trial has	A. One outcome B. Two outcomes C. Three outcomes D. Four outcomes

		C. Three outcomes D. Four outcomes
11	The hypergeometric distribution has parameters	A. Two B. Three C. Four D. Five
12	The hypergeometric experiment has properties	A. One B. Three C. Four D. Five
13	The hypergeometric distribution is used when trials are	A. Dependent B. Independent C. Equally likely D. Mutually exclusive
14	In which distribution the successive trials are with replacement	A. Hypergeometric B. Binomial distribution C. Continuous distribution D. Discrete distribution
15	A fair coin is tossed four times the probability of getting four heads is	A. $1/4$ B. $1/2$ C. $1/16$ D. 1
16	For positively skewed binomial distribution	A. $P = 0$ B. $P < 0.5$ C. $P > 0.5$ D. $P = 0.5$
17	Mean of hypergeometric distribution is	A. mN/k B. nK/N C. k/nN D. Nk/n
18	For a given binomial distribution with a fixed, if $p < 0.5$, then	A. The binomial distribution will be skewed to the left. B. The binomial distribution will be skewed to the right C. The binomial distribution will be symmetric D. None of these
19	If the probability of success $p = 0.4$ for a probability Bernoulli trial, the expression $7!/3!4! (0.4)^3 (0.6)^4$ given the probability of getting.	A. Exactly three successes in seven trials B. Exactly four successes in seven trials C. Three or more successes in seven trials D. Four or more successes in seven trials.
20	The mean of a binomial distribution depends on.	A. Probability of success B. Probability of failure C. Number of trials D. Both a and c
21	The mean of a binomial distribution depends on	A. Probability of success B. Probability of failure C. Number of trials D. Both a and c
22	The standard deviation of a binomial distribution depends on.	A. Probability of success B. Probability of failure C. Number of trials D. Both a and c
23	Which of the following can never be described by a binomial distribution.	A. The number of defective items produced by an assembly process B. The amount of water used by a single household C. the number of students in the class who can answer this questions D. All of these can always be described by a binomial distribution
24	the number of possible outcomes in a Bernoulli trial is.	A. One B. Two C. Three D. Four
25	A binomial random variable is a (an)	A. Continuous random variable B. Discrete random variable C. Dependent variable D. Independent variable
		A. Independent variable B. Continuous random variable

26	A hypergeometric random variable is a (an)	B. Continuous random variable C. Discrete random variable D. None of these
27	In which distribution the probability of success remains constant from trial to trial	A. Hypergeometric distribution B. Binomial distribution C. Sampling distribution D. Continuous distribution
28	In which distribution the successive trials are with replacement.	A. Hypergeometric distribution B. Binomial distribution C. Continuous distribution D. None of these
29	In which distribution the successive trials are without replacement.	A. Hypergeometric distribution B. Binomial distribution C. Continuous distribution D. None of these
30	Both binomial and hypergeometric distribution are.	A. Continuous probability distribution B. Discrete probability distributions C. Neither continuous nor discrete probability distributions. D. Bivariate distributions.
31	A fair coin tossed four times, the probability of getting four heads is.	A. 1 B. 1/4 C. 1/2 D. 1/10
32	A four die is rolled three times. the probability of getting three aces is.	A. 1/4 B. 1/6 C. 1/216 D. 1/27
33	A fair coin is tossed five times. The probability of getting zero heads is.	A. 1/2 B. 1/32 C. 6 D. 1/5
34	In hypergeometric distribution the trials are.	A. Independent B. Dependent C. Independent and dependent D. None of these
35	In a binomial experiment, the successive trials are.	A. Dependent B. Independent C. Mutually exclusive D. Fixed
36	The binomial probability distribution is symmetrical when	A. $p = q$ B. $p < q$ C. $p > q$ D. $np > npq$
37	The percentage of observations lying within the limits $\bar{X} \pm 3S$ in the normal distribution.	A. 68.26% B. 95.44% C. 70.00% D. 99.75%
38	In a hypergeometric distribution $N = 6$, $n = 2$, $K = 3$ Then mean.	A. 1 B. 2 C. 3 D. 4
39	In hypergeometric distribution n is.	A. Changed B. Zero C. Fixed D. variable
40	In a binomial, $n = 20$, $p = 3/5$, then variance of this distribution is.	A. 12 B. 60 C. 4.8 D. 0
41	Binomial distribution is positively skewed when	A. $p > q$ B. $p = q$ C. $p < q$ D. $p = 1/2$
42	If $p = q = 1/2$ then distribution is called.	A. Positively B. Skewed C. Symmetrical D. Negatively
43	The hypergeometric distribution has..... parameters.	A. 1 B. 2 C. 3 D. 4

44	The probability of failure is equal to.	A. p B. $1 - q$ C. $P - 1$ D. $1 - P$
45	In a binomial experiment with three trials, the variable can take.	A. 2 Values B. 3 Values C. 4 Values D. 5 Values
46	The number of trial in binomial distribution is.	A. Not fixed B. Fixed C. Large D. Small
47	In a hypergeometric distribution.	A. Mean $>$ Variance B. Mean $<$ variance C. Mean = variance D. Mean = Zero
48	The binomial distribution is negatively skewed if.	A. $p < 1/2$ B. $p = 1/2$ C. $p > 1/2$ D. $p = 1$
49	If $N = 40$, $n = 5$, $k = 4$, then mean of hypergeometric distribution is.	A. 1 B. $1/2$ C. $1/4$ D. $1/3$
50	For a binomial distribution with $n = 5$ prob ($X = -2$) is.	A. 0 B. Greater than zero C. Less than zero D. None of these
51	Binomial distribution is negatively skewed if.	A. $p < q$ B. $p > q$ C. $p = q$ D. $np = npq$