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Unit 4 - UNIT - IV : Statistical distributions and Test of hypothesis

Assessment -- 10

The due date for submitting this assignment has passed.

Due on 2023-05-28, 23:59 IST.

As per our records you have not submitted this assignment.

1) The Scatter diagram method is referred as *1 point*

- Karl pearson's method
- Spearman's method
- graphical method
- none of the above.

No, the answer is incorrect.
Score: 0
Accepted Answers:
graphical method

2) The mean of the binomial distribution is *1 point*

- pq
- npq
- nq
- np

No, the answer is incorrect.
Score: 0
Accepted Answers:
np

3) If the mean and variance of a binomial distribution are 12 and 4, then the distribution is *1 point*

- (1/3+2/3)^18
- (1/3+2/3)^17
- (1/3+2/3)^16
- (1/3+2/3)^20

No, the answer is incorrect.
Score: 0
Accepted Answers:
(1/3+2/3)^18

4) If X is a poisson variable such that P(X=2)=9P(X=4)+90P(X=6), then the median is _____ *1 point*

- 0
- 2
- 1
- 3

No, the answer is incorrect.
Score: 0
Accepted Answers:
1

5) In a binomial distribution, the relation between p and q is *1 point*

- p > q
- p < q
- q=1-p
- above all.

No, the answer is incorrect.
Score: 0
Accepted Answers:
q=1-p

6) Find the area to the left of Z = 1.90 *1 point*

- no left
- 0.5
- 0.4713
- no idea

No, the answer is incorrect.
Score: 0
Accepted Answers:
0.4713

7) find the area to the right of Z = 0.25 ***1 point***

- no idea
- 0.5
- 0.4013
- 0.25

No, the answer is incorrect.
Score: 0
Accepted Answers:
0.4013

8) A type of beam has a mean breaking strength of 1500 kgs and standard deviation 100 kgs. Find the relative frequency of all such beams whose breaking strength lie between 1450 and 1600 kgs. ***1 point***

- 0.3413
- 0.1915
- 0.5328
- insufficient data

No, the answer is incorrect.
Score: 0
Accepted Answers:
0.5328

9) In a Poisson distribution _____ ***1 point***

- Median=Mode
- Mean > Mode
- Mean<Mode
- Mean=variance

No, the answer is incorrect.
Score: 0
Accepted Answers:
Mean=variance

10) In the textile industry, a manufacturer is interested in the number of failures or flaws occurring in each 100 feet of material. The probability distribution that has the greatest chance of applying to this situation is the ***1 point***

- normal distribution
- binomial distribution
- Poisson distribution
- uniform distribution

No, the answer is incorrect.
Score: 0
Accepted Answers:
Poisson distribution

11) If X is a binomial variate with p=1/5 for the experiment of 50 trials then the standard deviation is _____. ***1 point***

- square root 2
- 1/5
- 10
- 2

No, the answer is incorrect.
Score: 0
Accepted Answers:
square root 2

12) Given X=B(n,p), the condition under which X tends to poisson distribution are _____. ***1 point***

- n tends to infinity and p tends to zero
- n tends to infinity and q tends to zero
- n tends to infinity, p tends to zero and np is fixed
- n tends to infinity and p tends to q.

No, the answer is incorrect.
Score: 0
Accepted Answers:
n tends to infinity, p tends to zero and np is fixed

13) 10 coins are tossed 100 times. How many times would you except 7 coins to fall head upward in binomial distribution? ***1 point***

- 12

- 10
- 13
- nothing

No, the answer is incorrect.
Score: 0
Accepted Answers:
12

14) using the formula of binomial distribution find the probability of rolling at most 2 sixes in 5 rolls of a dice. ***1 point***

- 1/6
- 5/6
- 625/648
- 1/6

No, the answer is incorrect.
Score: 0
Accepted Answers:
625/648

15) The mortality rate for corona disease is 7 in 1000. what is the probability for just 2 deaths on account of this disease in a group of 400? ***1 point***

- 23.52%
- 2%
- 8%
- 50%

No, the answer is incorrect.
Score: 0
Accepted Answers:
23.52%