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SASTRA » Numerical & Statistical Analysis

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

Cou	rse outline	Assessment 10	
	UNIT - I : Transcendental Polynomial & Simultaneous	The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.	Due on 2023-05-28, 23:59 IST.
	equations and	The Scatter diagram method is referred as	1 point
\oplus	Interpolations ()	Karl pearson's method	
+	UNIT - II : Numerical differentiation and Integration ()	Spearman's method graphical method none of the above. No, the answer is incorrect. Score: 0 Accepted Answers:	
	UNIT - III : Numerical Solutions of ODE	graphical method 2) The mean of the binomial distribution is pq npq	1 point
\oplus	0	o nq	
	UNIT - IV : Statistical distributions and Test of hypothesis ()	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
Lesson 1: Binomial distribution (week 10) (unit? unit=51&lesson=52)		(1/3+2/3)^18 (1/3+2/3)^17 (1/3+2/3)^16 (1/3+2/3)^20	
(Lecture 2: Poisson distribution(week 10) unit? unit=51&lesson=53)	No, the answer is incorrect. Score: 0 Accepted Answers: (1/3+2/3)^18	
○ <u>[</u>	Lecture 3: Normal distribution (week 10) unit? unit=51&lesson=54)	4) If X is a poisson variable such that P(X=2)=9P(X=4)+90P(X=6), then the median is 0 2 1	1 point
C	Lesson 4:Fitting the distribution to the data(week 10) (unit? unit=51&lesson=55)	3No, the answer is incorrect.Score: 0Accepted Answers:1	
(Lecture 5: Correlation week 11) (unit? unit=51&lesson=56)	5) In a binomial distribution, the relation between p and q isp > q	1 point
(Quiz: Assessment – 10 assessment? name=68)	p < q q=1-p above all. No, the answer is incorrect.	
(Lecture 6: Rank correlation(week 11) unit? unit=51&lesson=57)	Score: 0 Accepted Answers: $q=1-p$ 6) Find the area to the left of $Z=1.90$	1 point

Lecture 7: Multiple	○ no left	
correlation (week 11)	○ 0.5	
(unit?	0.4713	
unit=51&lesson=58)	○ no idea	
CLecture 8: Regression	No, the answer is incorrect. Score: 0	
Equations (week 11)	Accepted Answers:	
(unit?	0.4713	
unit=51&lesson=59)	7) find the area to the right of $Z = 0.25$	1 point
Lecture 9: Regression	O no idea	
Equations (week 11) (unit?	0.5	
unit=51&lesson=60)	0.4013 0.25	
Quiz: Assessment 11	No, the answer is incorrect.	
(assessment?	Score: 0	
name=70)	Accepted Answers: 0.4013	
Lecture 10: Small		
samples - t-test (week	8) A type of beam has a mean breaking strength of 1500 kgs and standard deviation 100 kgs. Find the relative frequency of a	ıll 1 point
12) (unit?	such beams whose breaking strength lie between 1450 and 1600 kgs.	
unit=51&lesson=61)	0.3413	
Lecture 11: t-test	0.1915 0.5328	
(contd.,) (week 12)	insufficient data	
(unit? unit=51&lesson=62)	No, the answer is incorrect.	
Lecture 12: F- test	Score: 0 Accepted Answers:	
(week 12) (unit?	0.5328	
unit=51&lesson=63)	O) to a Deisson distribution	
Lecture 13: Chi-square	9) In a Poisson distribution	1 point
test (week 12) (unit?	○ Median=Mode ○ Mean > Mode	
unit=51&lesson=64)	○ Mean <mode< td=""><td></td></mode<>	
CLecture 14: Chi-square	○ Mean=variance	
test (contd.,) (week 12)	No, the answer is incorrect.	
(unit? unit=51&lesson=65)	Score: 0 Accepted Answers:	
	Mean=variance	
Quiz: Assessment 12 (assessment?	10) In the textile industry, a manufacturer is interested in the number of failures or flaws occurring in each 100 feet of material.	1 point
name=72)	The probability distribution that has the greatest chance of applying to this situation is the	. po
Lecture 15: Large	onormal distribution	
Sample - Z-test (week	binomial distributionPoisson distribution	
13) (unit?	uniform distribution	
unit=51&lesson=66)	No, the answer is incorrect.	
Lecture 16: z-test	Score: 0	
(contd.,) (week 13)	Accepted Answers: Poisson distribution	
(unit?	11) If Y is a hippomial variate with n=1/5 for the experiment of 50 trials then the standard deviation is	
unit=51&lesson=67)	11) If X is a binomial variate with p=1/5 for the experiment of 50 trials then the standard deviation is	1 point
Unit V : Non-	○ square root 2 ○ 1/5	
parametric	0 10	
statistical	O 2	
methods & Time series analysis ()	No, the answer is incorrect.	
⊞ series alialysis ()	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

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○ 10	
○ 13	
Onothing	
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
O 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	d maint
of 400?	i point
○ 23.52%	
O 2%	
○ 8%	
○ 50%	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
23.52%	





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