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SASTRA » Numerical & Statistical Analysis

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

Course outline	Assessment 12
UNIT - I: Transcendental Polynomial & Simultaneous equations and  Interpolations ()	The due date for submitting this assignment has passed.  Due on 2023-06-11, 23:59 IST.  As per our records you have not submitted this assignment.  1) A sample of population is called a small sample if the sample size n is  less than 30  more than 30
UNIT - II : Numerical differentiation and ⊞ Integration ()	equal to 30 None of the above  No, the answer is incorrect. Score: 0  Accepted Answers:  less than 30
UNIT - III : Numerical Solutions of ODE  ()	2) Type II error is  H0 false and reject H0 H0 true and reject H0 H0 false and accept H0
UNIT - IV : Statistical distributions and Test of hypothesis	<ul> <li>none of the above</li> <li>No, the answer is incorrect.</li> <li>Score: 0</li> <li>Accepted Answers:</li> <li>H0 false and accept H0</li> <li>3) A simple random sample of size 100 has mean 15, the population variance being 25. The interval estimate of the population mean 1 point</li> </ul>
Lesson 1: Binomial distribution (week 10) (unit? unit=51&lesson=52)	with a confidence level of 95% is  (14,15) (12,14.5) (13,14)
Lecture 2: Poisson distribution(week 10) (unit? unit=51&lesson=53)	(14.02,15.98)  No, the answer is incorrect. Score: 0  Accepted Answers: (14.02,15.98)
Lecture 3: Normal distribution (week 10) (unit? unit=51&lesson=54)	4) Which is true?  Sampling distribution of t has less dispersion than the normal distribution sampling distribution of t has greater dispersion than the normal distribution
Lesson 4:Fitting the distribution to the data(week 10) (unit? unit=51&lesson=55)	<ul> <li>sampling distribution of t cannot be compared with normal distribution</li> <li>none of the above</li> <li>No, the answer is incorrect.</li> <li>Score: 0</li> <li>Accepted Answers:</li> </ul>
Lecture 5: Correlation (week 11) (unit? unit=51&lesson=56)	sampling distribution of t has greater dispersion than the normal distribution  5) Chi-square curve is always  a curve
Quiz: Assessment 10 (assessment? name=68)	opositively skewed negatively skewed test
Lecture 6: Rank correlation(week 11) (unit? unit=51&lesson=57)	No, the answer is incorrect. Score: 0 Accepted Answers: positively skewed

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O Lecture 7: Multiple	6) The correlation coefficient always lies between	1 point
correlation (week 11)	0 and 1	
(unit?	0 -1 and 0	
unit=51&lesson=58)	-1 and 1	
Lecture 8: Regression	always greater than 1.  No, the answer is incorrect.	
Equations (week 11) (unit?	Score: 0	
unit=51&lesson=59)	Accepted Answers: -1 and 1	
Lecture 9: Regression		
Equations (week 11)	7) Chi-square test is a non-parametric test because	1 point
(unit?	Its value is not derived from the observations in a population.	
unit=51&lesson=60)	observations derived from populations.	
Quiz: Assessment 11	<ul><li>concerned with any population distribution and its observations.</li><li>no idea</li></ul>	
(assessment?	No, the answer is incorrect.	
name=70)	Score: 0	
Lecture 10: Small	Accepted Answers:  Its value is not derived from the observations in a population.	
samples - t-test (week	no valo o not como anomalo cason alla no ma population.	
12) (unit?	8) If the sample size is 20, which test will you use	1 point
unit=51&lesson=61)	o small sample test	
Lecture 11: t-test	O large sample test	
(contd.,) (week 12) (unit?	neither small nor large sample test     none of the above	
unit=51&lesson=62)	No. the answer is incorrect.	
Lecture 12: F- test	Score: 0	
(week 12) (unit?	Accepted Answers: small sample test	
unit=51&lesson=63)		
Lecture 13: Chi-square	What is required to perform a Chi-square test?	1 point
test (week 12) (unit?	Data be measured on a nominal scale	
unit=51&lesson=64)	Each cell has an equal number of frequencies     Data conform to a normal distribution	
Lecture 14: Chi-square	O All of these	
test (contd.,) (week 12)	No, the answer is incorrect.	
(unit?	Score: 0 Accepted Answers:	
unit=51&lesson=65)	Data be measured on a nominal scale	
Quiz: Assessment – 12	10) Which is correct decision	1 point
(assessment? name=72)		r pom
	○ H0 true and accept H0 ○ H0 true and reject H0	
Clecture 15: Large Sample - Z-test (week	O H0 false and accept H0	
13) (unit?	onone of the above	
unit=51&lesson=66)	No, the answer is incorrect.	
Lecture 16: z-test	Score: 0 Accepted Answers:	
(contd.,) (week 13)	H0 true and accept H0	
(unit?	11) Which is truthful decision	1 point
unit=51&lesson=67)	H0 false and reject H0	,
Unit V : Non-	O H0 true and reject H0	
parametric	O H0 false and accept H0	
statistical	onone of the above	
methods & Time	No, the answer is incorrect. Score: 0	
⊕ series analysis ()	Accepted Answers:	
	H0 false and reject H0	
	12) Type I error is	1 point
	O H0 true and accept H0	
	H0 true and reject H0	
	H0 false and accept H0	
	onone of the above	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: H0 true and reject H0	
	The date distribution	

any value
greater than 1

13) In F-test the value of F must be \_\_\_\_

1 point

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○ less than 1	
equal to 1	
No, the answer is incorrect. Score: 0	
Accepted Answers: greater than 1	
14) F- test applied for	1 point
two variances derived from two samples	
O values derived from two data	
O problem solving	
O is a test	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
two variances derived from two samples	
15) Ten objects are chosen at random from a large population and their weights are found to be (kgs) 63, 63, 64, 65, 66, 69, 69 70, 70, 71. Discuss the suggestion that the mean weight in the universe is 65.t at 5% is 2.262	1 point
○ t = 2.024, accept H0	
○ t = 2.024 reject H0	
O data missing	
O no idea	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
t = 2.024, accept H0	





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