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B.Sc. Part-II (Semester-III) Examination 3S: STATISTICS

Tin	ne : T	hree H	ou	rs]		[Maximum Ma	rks: 80
				Note :- ALL qu	estions are co	ompulsory.	
1.	(A)	Fill in	th	e blanks :			2
		(i) T	est	ing of hypothesis is a _	decis	ion problem.	
		(ii) In r × s contingency table, d.f. is					
		(iii) A method of "sample study" relating to population is known as					
		(iv) The study of birth, death, migration etc. is called					
	(B)	Choose the correct alternative :					
		(i) "Testing of hypothesis" was initiated by :					
		(;	a)	Karl Pearson	(b)	R.A. Fisher	
		(:)	J. Neyman	(d)	C.R. Rao	
		(ii) C	hi-	square test is also calle	ed as :		
		(;	a)	Normal test	(b)	Parametric test	
		(c)	Non-parametric test	(d)	Two tailed test	
		(iii) (ien	erally census in every c	country is con	ducted after years.	
		(a)	Three	(b)	Five	
		(c)	Ten	(d)	Fifteen	
		(iv) I	n li	fe table terminology qx	:		
		,		€x+10	d.x	4-11-4	
		(;	a)	$\frac{\ell x + 1}{\ell x}$	(6)	$\ell x + 1 - \ell x$	
			. \	$\ell x + 1 \cdot \ell x$	(4)	dx	
		()	ex + 1 · ex	(d)	ℓx	
	(C)	Answ	er i	in ONE sentence each			4
		(i) V	Vha	at is meant by vital ever	nt ?		
		(ii) Define parameters of population.					
		(iii) V	Vho	proposed the chi-squa	ting the goodness of fit ?		
		(iv) V					
2.	(A)	Explain in brief, present statistical system in India.					4
	(B)	State the important publications of banking and finance.					
	(C)	Describe De facto method of census with its advantages and disadvantage					4
					OR		
VD	C 153	265			,		(Contd.)
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OR

(C) Describe the steps for drawing a random sample from normal distribution.

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10. (A) Explain the concept of random sample.

(B) Obtain sampling distribution of sum of Binomial variate.



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(Firstranker's choice Statistic awww.FirstRanker!comion. www.FirstRanker.com (Q) Obtain sampling distribution of sum of Poisson variate. (R) Give the procedure of drawing a random sample from Binomial distribution. 4 12. (A) Define chi-square variate with 'n' degrees of freedom and obtain its m.g.f. 4 (B) State and prove additive property of chi-square variate. 4 (C) Explain Yate's correction factor in 2 × 2 contingency table and give corrected chi-square. OR (P) State the conditions for validity of chi-square test. (Q) Explain chi-square test for testing goodness of fit. (R) In 2 × 2 contingency table



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