Instructions for Test – (Statistics)

- 1. There are 100 questions and you have 90 minutes to attempt them.
- 2. Write your name and roll number on the answer sheet and on the specified space given in question paper only.
- 3. There are two tests in total. Out of these, first test is for Statistics and second one for your competency in English language.
- 4. Every question is followed by four/five alternative answers lettered as A, B, C, D and E.
- 5. Use of calculator is not allowed.
- 6. You should use a block marker to fill the correct box on the answer sheet against the question number.
- 7. Squares not completely filled will be considered as incorrect answers.
- 8. If you fill more than one alternative for one question, neither will be valid.
- 9. All questions carry equal marks.
- 10. After completion of the test, you must hand over the answer sheet and question paper both to the examiner. Papers of candidates failing to do so will be cancelled.
- 11. The result declared will be final, i.e., no objection will be accepted nor any answer sheet will be shown.
- 12. Do not write anything on the question paper. Rough work may be done on sheets provided separately for this purpose.
- 13. Start the test only when you are instructed to do so.
- 14. Stop immediately when announced.
- 15. Do not go to the next test until announced.
- 16. Violation of instruction may lead to expulsion from the test.

Example:

If the dispersion is small, the standard deviation is:

- A) large B) zero
- C) small D) negative

The correct answer for the above question is small; therefore fill the square under C in your answer sheet as shown below.



DO NOT TURN THE PAGE

Section I: Statistics

Q:-1	A com A)	mittee 50	of 4 pec B)	ople be 60	chosen C)	out of 8 70	people D)	e in v 80	ways. E)	None	of above
Q:-2	Nation A) D)		ry data	l registi	ration sy B) E)	Group	a source bed data of abov	L	C)	Secor	ndary data
Q:-3	If f ₀ an A)	nd f _e are 1	identic B)	al then 0	value o C)	f chi-sq >0	uare wo D)	ould be.	Е)		of above
Q:-4	The ma A) D)	Origin	-		re chang B) E)	Scale	he char of abov	-	C)	Algeb	oraic sign
Q:-5	If third A) D)	Symm			i.e. m₁ = B)	Positiv	en the d vely ske one of a		on is C)	Negati	ively skewed
Q:-6	The de A) D)	egree of (r-1) (r-1)(c		m in tes	t of ind B) E)	(c-1)	nce is: of abov	ve	C)	(r-1)(c-1)
Q:-7	β is the A) D)	Type-1	bility of l error ble error		itting: B) E)	• •	II error of abov		C)	Gener	ral error
Q:-8					nich hav ich othe	-	oint in c B)	ommon Indepe		ents A	and B are
	A) C)	1	lly excl	-		Depen	/	muepe	E)	None	of above
Q:-9	The pr A) D)	Infinit	-		ection of B) E)	Zero	o mutu the abo	-	lusive e C)	vents is One	s always:
Q:-10	Two ra A) D)	E(XY)			B)	said to b E(XY)	-	pendent,	if: C) E)		T)=E(X)E(Y) The above
Q:-11	If the v A) D)	values a Weigh Value	ited	jual imp	oortance B) E)	Un we	lex nun eighted of the a	nbers are	e called C)	Comp	posite
Q:-12		-					-	country		rmined	by
	A) C)		price in osite ind		B) D)		e sale pi ne inde:	rice inde x	E)	None	of the above
Q:-13		-	-	on alwa	ays pass		-				(FF)
	A) D)	(X, \overline{Y})				B) E)	(a, b) (X,Y)	1		C)	(X, Y)

Q:-14	If X is A)		h its me B)	ean \overline{X} , the expression I Second central mome		represents:
	C)	Standard deviation of				E) None of above
Q:-15			-	p.d.f $f(x)$, then $E(X)$		TT '
	A) D)	Arithmetic mean First quartile	B) E)	Geometric mean mode	C)	Harmonic mean
Q:-16	If ∑≣	□ (X - X⁻)(Y - Y⁻1)i	s zero t	he correlation is		
	A)	U	B)	High negative	C)	High positive
	D)	Weak positive	E)	None of above		
Q:-17		-		between two quantitati		
	A)	Regression	B)	Correlation	C)	Both A and B
	D)	Attribute	E)	None of above		
Q:-18	Increa	se in the number of pa	tients in	the hospital due to hea	at strok	e
	A)	Secular trend	B)	Irregular trend	C)	Seasonal variation
	D)	Cyclical variation	E)	None of above		
Q:-19	If X~l	(, or then the poir	nt of inf	lexion of normal curve	e are:	
	A)	±μ	B)	μ <u>±</u> σ	C)	σ±μ
	D)	±σ	E)	None of above	,	
Q:-20		er of possible samplement is:	es of s	ize n from a popula	tion of	size N units with
	A)	N^n	B)	n²	C)	n!
	D)	Infinity	E)	Zero		
Q:-21	Probal	oility of drawing a unit	from e	ach selection remain sa	ame in:	
	A)	SRSWOR	B)	SRSWR	C)	Both A and B
	D)	None of the above	E)	All of the above		
Q:-22	The be	est fitting trend is one i	n which	the sum of squares of	f residu	als is
-	A)	Negative	B)	Least	C)	Zero
	D)	Maximum	E)	One		
Q:-23		ics deals with drawing eter, on the basis of sa	-	usions and making deci	isions a	bout any population
	A)	Descriptive	B)	Inferential	C)	Theoretical
	D)	Parametric	E)	All of the above		
Q:-24	The vo	pice of singers in a mu	sic conc	cert is		
-	A)	Qualitative	B)	Quantitative	C)	Both A and B
	D)	Not a variable	E)	None of above		
Q:-25	The er	rors in survey other th	an samp	oling errors are called:		
-	A)	Formula errors	B)	Non sampling errors	C)	Planning errors
	D)	Typing errors	E)	None of the above		
026	Sampl	ing is a way of selecting	ıσ			
Q. 20	A)	Sample	B)	Population	C)	Census
	,	ĩ	,	ī	,	

	D)	All of the ab	ove	E)	None	of the a	lbove				
Q:-27	Usuall A) D)	ly is used Histogram None of thes		B)	Bar cl	hart	1.	C)	Pie	chart	
Q:-28	For an A)	ny Bernoulli tr 0 B)		C)				infi	nity		
Q:-29	Correl A) D)	lation is the de Co variation Relationship		B) E)	Interd		veen vai nce)		Reg	ression	
Q:-30	A)	eight of a pers Statistics Both A and I		B) E)	Numerical value C) None of above			C)	Recorded data		
Q:-31	Error A)	of measureme One B)	nt is of _ Two	C)	typ Three		D)	Four	E)	Five	
Q:-32	The m A)	nean of the bin nt B)	omial di np	stributic C)	on is : nq		D)	npq	E)	None of these	
Q:-33	Area u A) D)	under the norm Unity Infinity	nal curve	e is B) E)	Zero All of	the abc	ove	C)	Neg	gative	
Q:-34	Comp A) D)	lete enumerati Census None of thes		B)	Samp	le surve		C)	Pilo	ot survey	
Q:-35	Sampl A) D)	le mean is an e Population p None of thes	roportio		-	ation va these	ariance	C)	Рор	ulation mean	
Q:-36	What A) D)	is the standard Sampling err Simple error	or	on of a s B) E)	Samp	g distrit le error these		alled? C)	Star	ndard error	
Q:-37	When A) C)	the regression Intercept is z Correlation i	ero	ases thro B) D)	Regre	-	oefficie	nt is zere E)		ne of above	
Q:-38		the actual and es of error will		ted value	ues of	Y are o	on the	regressi	on li	ne, the sum of	
	A) D)	Zero Unity	be	B) E)	Minir None	num of the a	bove	C)	Ma	ximum	
Q:-39	Increa A) D)	sed demand o Secular trenc Irregular trer	1	ion in th B) E)	Cycli	ect of co cal trend of abov	d Î	in Paki C)		s sonal trend	
Q:-40	Which A)	n one of the for Monthly inco	-			nsidered B)				n a garden	

	C) E)	Shoe size of college to Number of flowers	eachers		D)	Religio	on prefe	erence	
Q:-41	D) A) D)	are the values tha Confidence intervals Margin of error		Confid	ndaries lence lin of above	nits			val. confidence
Q:-42	The re A) D)	jection and non rejection Rejection value Point of no return	on regio B) E)	Dividi	livided ng point the abov		C)	Critical	l value
Q:-43	A hype A) D)	othesis may be classific Simple All of the above	ed as B) E)	Compo None o	osite of the ab	oove	C)	Null	
Q:-44	The sh A) D)	ape of the normal curv J shaped t shaped	re is B) E)	U shap none o			C)	Bell sh	aped
Q:-45	Coeffi A) D)	cient of association lies -1 to +1 None of these	s betwee B) E)	en: 0 to 1 All of	these		C)	-1 to 0	
Q:-46	Chi sq A) D)	uare distribution is a Symmetric Skewed	B) E)	Positiv	istributio ely skew of these		C)	Negativ	ely skewed
Q:-47	Which A) D)	one is the type of the Quantitative Spatial	data ? B) E)	Qualita All of	ative the abov	7e	C)	Tempo	ral
Q:-48	Mean A) D)	deviation is minimum Mean Geometric mean	when it B) E)	Mode	llated fro		C)	Mediar	1
Q:-49	respec	the set of data the first tively then the variance 15 B) 17	e is equa	al to		nt about 19	the var E)	lue 20 ai 20	re -2 and 15
Q:-50	Fisher A) C) E)	's Ideal index No confi Only time reversal tes Both time and factor i None of above	st	test	,	Factor All the			
Q:-51	Relatio A) D)	onship between Correlation Dis-association	two B) E)	Associ		is	ca C)	lled Indeper	ndence
Q:-52	t-distri A)	bution has pa One B) Two	rameter C)			D)	Four	E)	Five
Q:-53	A sam A) D)	ple is normally Neither smaller nor la Equal and larger		B)			C)	Smalle	r

Q:-54		nce of the standard nor			D)	N T (*		T)		
0.55	A) A clas	Zero B) One s width is	C)	Infinity	D)	Negati	lve	E)	Fraction	
Q55	A clas A)	The difference betwe	en the t	wo limits.						
	B) The difference between the values of the upper and lower class boundaries.									
	C)	The difference between				ervatio	ns in	the d	lata.	
	D)	Difference between th	ne first a	and last values	of X.					
	E)	All of above								
Q:-56	The g	raph that displays the	data b	y using straigh	t lines t	that con	nnec	t poir	nts for the	
-	-	ncies at the midpoints	of the c	lasses is called				-		
	A)	Histogram		Historigram	1 (C)	Ogi	ve		
	D)	Frequency polygon	E)	Component ba	ar chart					
Q:-57	In nor	mal distribution M.D =	:	4/5 σ						
	A)	Less than	B)	Greater than		C)	Εqι	ıal		
	D)	None of these	E)	All of these						
O [.] -58	Binom	nial random experimen	t consis	ts of n t	rials					
Q. 50	A)	Dependent		Independent	i iuis	C)	Mut	ually	exclusive	
	D)	Joint	E)	None of these		,		5		
o f o										
Q:-59		stical table has at least		Four ports		(\mathbf{C})	The		rta	
	A) D)	Five parts Two parts	· ·	Four parts Ten parts		C)	Ini	ee pa	rts	
	D)	i wo parts	L)	ren parts						
Q:-60	The H	.M of two no's "a" and	l "b" is				_	_		
	A)	a+b/2	B)	2ab/a+b		C)	\sqrt{a}	5		
	D)	a+b	E)	ab						
O:-61	The la	ck of uniformity is call	led							
		Symmetry		Dispersion		C)	Ske	wnes	S	
	D)	Kurtosis	E)	None of above	9					
062	Discre	te variable assumes	ทบบ	mbers of values	1					
Q. 02	A)	Unlimited	B)	limited		C)	Infi	nite		
	D)	None of these	E)	All of these		,				
0. (2	IC V			:-1.1	. :4	164		v_ 2	D_	
Q:-63	II A A)	is a continuous rand One	om var B)	Zero $p(x)$) its p.	C)		x=22 gative		
	D)	4.5	E)	None of these		0)	1108	Sative		
	,		,							
Q:-64		oility is a measure of:	D)				a			
	A)	Uncertainty None of these	B)	Certainty All of these		C)	Sur	ety		
	D)	None of these	E)	All of these						
Q:-65	If Lasp	peyre's index=105.4 ar	nd Paaso	che's index=10.	3.2, ther	n Fisher	r's in	dex 1	No=	
	A)	104.5	B)	04.3		C)	105	.3		
	D)	110.3	E)	106						
0 [.] -66	The n	neasure of dependenc	e of o	ne random va	riable 1	ipon a	nothe	er no	n random	
×. 00		le is called				Ton u				
	A)	Correlation	B)	Association		C)	Reg	gressi	on	
	D)	Attribute	E)	All of above						

Q:-67	When	regression line passes	through	origin then 'a' is		
	A)	Zero	B)	Negative	C)	Positive
	D)	Unity	E)	Hundred	,	
Q:-68	Correl	ation coefficient and re	egressic	on coefficient have		
	A)	Same sign	B)	Opposite signs	C)	Always positive
	D)	Always negative	E)	None of above		
Q:-69	Increa	sed demand of crocker	y and to	ent service on Sunday i	S	
	A)	Trend	B)	Seasonal	C)	Cyclical
	D)	Irregular	E)	None of above		
Q:-70	A qua	ntitive variable whose	values a	are countable is called		
-	A)	Categorical variable	B)	Continuous variable	C)	Discrete variable
	D)	Random variable	E)	None of these	*	