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e: 3 ho	ours		DUS	IIIESS S	TAIISII	ICS FU		JERS	Max. Marks	: 60
					SECT	ION -	A			
			(4	Answer al	ll Five Un	its 5 x 1	0 = 50 Ma	arks)		
				axinai .t.	UI	NIT-I				
Def	ine statis	tics. E	Explain t	the scope	of Statist	tics. Wh	at are the l	basic funct	ions of L2	10N
Stat	istics?				20					
- I	Eveloin o	icin	davalar	mont and	aignificau	OR	tatistics		τ.1	ENA
a r	How com	nuters	can be	ment and	significar	l analys	is? Explain	with ever	unles L2	JIVI 5M
U I		puters		userur ior	statistica		is: Explain			5101
9 1	Write abo	ut the	introdu	ction of n	Deasures o	f centra	1 tendency		L1	5M
a b (Calculate	Mean	and Mc	de from 1	he follow	ving data	n tendency.		L1 L5	5M
Γ	Marks	0-10	0 1	0-20	20-30	30-40	40-50	50-60		5111
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Ī	No. of	12	1	8	25	32	26	11	e leiter -	
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Fine	d the Qua	rtile I	Deviation	n for the o	lata given	below:			L5	10M
X	0-	10	10-20	20-30	30-40	40-50) 50-60	60-70		
Y	7		10	16	21	9	11	5		
					UN	IT-III				
a I	Explain al	oout p	orimary o	data and s	econdary	data.			L2	5M
b (Jive a bri	et exp	blanation	n about ta	bulation o	of data			L3	5M
• 1	The follow	vina	ra tha fi	auros of	ulas of tu	UK vo firmo	A & D for t	ha waara 20)15 to 15	5M
a)	2019 Pres	sent th	ne data o	raphically	v	vo mms	A&D IOI I	ne years 20)15 to L5	3111
Ĺ	Year		ie aata E	Sales F	Firm A ('o	000	Sales Firn	n B ('ooo		
	1 Cui			units)			units)		nig ices gavino	
1	2015			255	255		376			
	2016	•		276			407			
	2017			302 312			397			
2018 2019			_				333			
				299 356						
bΙ	Iow can y	you re	present	data by o	ne dimens	sional d	iagram?		L3	5M
					UN	IT-IV				
a V	What is th	e mea	aning of	regressio	n analysis	? Expla	in its utiliti	ies.	L2	5M
bΙ	b Define correlation. what is the importance of correlation							L2	5M	

11



OR

Calculate correlation coefficient from the following data and interpret the result. 8 L4 **10M** Marks in Statistics (X) 20 35 15 40 26 35 30 25 45 32 Marks in Accounts(Y) 25 30 20 35 20 25 25 35 35 40

UNIT-V

10M

A sample of 450 individuals is found to have a mean height of 77.47 inches. Is it L4 9 reasonable to regard the sample drawn from the large population with mean height 66.19 inches and standard deviation of 1.5 inches. Test at 1% level of significance.

OR

10 In a large manufacturing factory, a survey was conducted regarding three types of L4 **10M** bonus schemes. Total employees were divided into four categories namely laborers, clerks, technicians and executives. The results obtained by way of opinion survey are presented in the form of contingency table as given below. Test the goodness of fit at 5% level of significance.

Employees	BONUS SCHEMES						
Category	Type 1	Type 2	Type 3				
Labour	189	256	217				
Clerks	78	55	57				
Technologies	35	99	77				
Executives	7	19	11				

SECTION - B

(Compulsory Question)

$1 \times 10 = 10$ Marks

The life time of electric bulbs for a random sample of 10 from a large consignment gave the following data;

Item	1	2	3	4	5	6	7	8	9	10
Life	4.2	4.9	3.7	4.5	6.6	3.9	4.02	5.05	4.89	6.75
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°000		Carrier of State		Second States	an in the		STE PHAT			
hours		1.								

Can we accept the hypothesis that the average life time of bulbs is 4000 hours?

*** END ***