24U198			(Pag	ges: 2)			Name	:	
							Reg. No	:	
FIRST SEM	IESTER U	G DEC	GREE	EXAN	(INA)	Γ ΙΟΝ ,	NOVEM	IBEF	R 2024
			(FY	UGP)					
CO	C24U STA1	MN1()9 - EI	LEME	NTAR	EY ST A	ATISTIC	S	
	(E	S.Sc. Si	Admia	s - Mir	or Co	urse)			
Simor 2.0 Hours		(2024	Admis	51011 -	Keguia	11)			Marina 70 Marka
line. 2.0 110urs									Credit: 4
	Р	art A (Short a	inswer	auesti	ons)			Cicuit. 4
	Answer all c	uestio	ns. Eac	h ques	stion c	arries (3 marks.		
1. Explain quantitative vari	ables with e	xample	es.						[Level:2] [CO1]
2. Make a frequency distrib	oution for the	e follov	ving u	ngrour	ed dat	a:			[Level:3] [CO2]
5, 8, 7, 5, 6, 8, 9, 7, 8, 5,	5, 8, 7, 5, 6,	8, 9, 7	7, 8, 5,	5, 8, 7	, 5, 6,	8, 9, 7	, 8, 5.		
3. Describe geographical cl	assification.								[Level:2] [CO2]
4. Discuss historigram.									[Level:2] [CO2]
5. Calculate the arithmetic	mean of 305	. 320.	332.35	50.					[Level:3] [CO3]
6 Calculate Mean of the fo	llowing date	, , ,	,						[Level:3] [CO3]
Mid value	5 10	1.	20	25	30	35			
Frequency	18 29	46	62	51	14	10	-		
7. Explain pie diagram		<u> </u>	I	<u> </u>	<u> </u>	<u> </u>			[Level·2] [CO2]
	65 11 1	0 1 (7 0 14	- 12 1	0.0				
o. Calculate narmonic mea	in 01 5, 11, 1	2, 10,	7, 9, 13	5, 15, 1	0, 8.				[Level:5] [CO5]
9. Discuss regression. Exp	plain the pro	perties	of reg	ressior	1 coeff	icient.			[Level:2] [CO4]
10. Explain correlation coeff	ficient. List (he pro	perties	of cor	relatio	n coef	ficient.		[Level:2] [CO4]
									(Ceiling: 24 Marks)
	Part Answer <i>all</i> c	B (Par	agraph ns Eac	n quest	ions/Pi	roblem	1) 6 marks		
11		lacstio	115. La x	in que		411105 \	o marks.		
¹¹ . Explain different types o	t data.								[Level:2] [CO1]
12. Describe the importan quantitative research.	ce of ensu	uring	accura	cy, va	alidity	and	precision	ı in	[Level:2] [CO1]

13.	Given the	following	frequency	distribution,	Make	a less-than	and	greater-than
	cumulative	e frequency	distribution	n tables.				

Class	10-19	20-29	30-39	40-49	50-59
Frequency	5	7	12	10	6

- 14. Describe merits and demrits of mode.
- 15. Calculate P 50

10, 12, 15, 18, 20, 22, 25, 28, 30, 33, 35, 38, 40, 42, 45.

16. Compute median of the following.

Class	0-5	5-10	10-15	15-20	20-25
Frequency	7	18	25	30	20

17. Calculate standard deviation for the following data.

Class	3-5	5-7	7-9	9-11	11-13	13-15
Frequency	10	35	70	35	12	6

18. Explain scatter diagram.

Part C (Essay questions)

Answer any one question. The question carries 10 marks.

- 19. Describe different types of graphs
- 20. Calculate the correlation coefficient from the following data and interpret the [Level:3] [CO4] result.

Marks in English	30	40	5	20	10	45	22	18
Marks in Hindi	55	75	60	12	11	38	25	15

 $(1 \times 10 = 10 \text{ Marks})$

[Level:3] [CO3]

[Level:2] [CO2]

(Ceiling: 36 Marks)

[Level:2] [CO3]

[Level:3] [CO3]

[Level:3] [CO3]

[Level:3] [CO2]

[Level:2] [CO4]