Nar	ne		Printed Pages:02							
Stu	dent Admn. N									
		School of Basic and Applied Sciences	I							
Backlog Examination, June 2023										
[Programme: B.Sc(H)Mathematics] [Semester: IV] [Batch: 2020-23] Course Title: Econometrics Max Marks: 100										
	irse Code: BS		Time: 3 Hrs.							
Inst	ructions:									
		 All questions are compulsory. Assume missing data suitably, if any. 								
			K	COs	Marks					
			Level	COS	IVIALKS					
		SECTION-A (15 Marks) 5 Marks	each							
1.	Explain sin	K1	CO1	5						
2.	The correla $b_{xy}=1.50$, by of (a) y on x	es K2	CO2	5						
3.	Define incluing regression i	K1	C01	5						
	6	each								
4.	Two numbe Mathematic (1, 1), (2, 10) (14, 1	 of same 16 students in Mathematics and Physics are as follows. bers with in brackets denote the ranks of the students in the students in the students: (3, 3) (4, 4) (5, 5) (6, 7) (7, 2) (8, 6) (9, 8) (10, 11) (11, 15) (12, 9) (13, 12) (15, 16) (16, 13). the rank correlation coefficient for proficiencies of this group in Mathematics and Physics. 	K2	CO2	10					
5.	The child n rate (FLR) reproduced CMi = 263 se = (1 Test hypoth	К4	CO3	10						
6. 7.	 a) Explain 1 b) Explain 1 Derive norm Find the content 	K3 K4	CO1 CO3	10						

	Х	10	14	18	22	26	30					
	Y	18	12	24	6	30	36					
	SECTION-C (45 Marks) 15 Marks ea									ach		
8.	Fit multiple li following data	a:		ve for y a 1 1 17.9				usin	g	K5	CO4	15
9.	When estimating a multiple linear regression model based on 30 observations, the following results were obtained:Standard CoefficientsErrorIntercept153.95124.08 x_1 12.142.89 x_2 2.352.08Write the equation of regression model for given data.						K5	CO3	15			
	Find 95% and 99% confidence interval for β_2 .											
10	Fit a least-sque $X = 0$ Y = 2 Explain different examples.	0 <u>1</u> 2.4 2.1	2	3 .2 5.	.6	4 9.3	5 14.6	6 21.		K5	CO2	15