Enrollment No: Exam Seat No:  C. U. SHAH UNIVERSITY  Summer Examination-2022								
Subjec	t Nai	me: Biostatistics and Bioinformati	cs					
Subject Code: 5SC04BIB1			Branch: M.Sc. (Microbiology)					
Semest	ter: 4	Date: 02/05/2022	Time: 11:00 To 02:00	Marks: 70				
(2) (3)	Use Inst Dra	of Programmable calculator and any ructions written on main answer boow neat diagrams and figures (if nece ume suitable data if needed.	k are strictly to be obeyed.	prohibited.				
SECTION – I  Q-1 Attempt the Following questions (07)								
Q-2	c.	Define: Biostatics. What is Standard Error? Define: Algorithm Why do we need biostatistics? What is Hypothesis Testing?	c methods of data representation t of the right index finger was	07				
	OR							
Q-2		Write down the difference between	Parametric & Non-Parametric	( <b>14</b> ) Γest.				
Q-3		(Any 6 Points)		(14)				

The weight of fathers and sons are given in the following table: Calculate the regression coefficient for weights of fathers and sons.



Weight of Father(Kg)	Weight of son(Kg)
60	62
61	63
62	64
59	62
63	62
63	65
64	65
66	68
65	66
64	66

## OR

Q-3	a.	Write down the detail note on Measures of central tendency- Mean,	7
	b.	Median, and Mode (Definition, Formula, Example) Write down the detail note on Parametric Test.	7
		SECTION – II	
Q-4		Attempt the Following questions	(07)
	a	. Define bioinformatics	
	b	Enlist characteristics of database	
	c	· · · · · · · · · · · · · · · · · · ·	
	d		
	e		
	f.		
	g	. Give full form of SCOI	
Q-5		What is database? What is role of database? Write in detail note on sequence databases. (Any two)	(14)
		OR	
Q-5	a. b.	What is bioinformatics? Give detail note on application of bioinformatics Write down short note on NCBI Database with application	7 7
Q-6			(14)
		Write down in detail Data analysis tools (any two)	
		OR	
<b>Q-6</b>		Attempt all Questions	
-	a.	Write detail note on nucleotide and protein sequence submission tool. (any one)	07
	b.	Write down in detail BRENDA & AMENDA	07

