QP Co	ode: P25B029	Reg. No Name	:	
	ST MARY'S COLLEGE (AUTONOMO	US), TH	RISSUR-20	
	II SEMESTER (CBCSS-PG) DEGREE EXAMI M Sc Biotechnology	·		
	GBT2C04: BIOSTATISTICS AND BIO		ATICS	
Time:3 H	2024 Admission Onward Tours	IS	Maximum Weig	htage:30
	Part A		•	, ,
Sh	ort answer type questions: Answer any four questions: $(4x2 = 8 Weightage)$. Weightage	2 for each questi	on.
1.	Discuss about population and sample.			[BTL2]
2.	Analyse the regression coefficient. Mention a short for	ormula.		[BTL4]
3.	Describe chi-square test.			[BTL2]
4.	Compare and contrast the various types of windows is specific functions and applications.	n SPSS, ana	alyzing their	[BTL4]
5.	Define a stack and list two operations performed on it	t.		[BTL1]
6.	Explain the use of statistical functions in MS Excel for	or computin	g the mean.	[BTL3]
7.	Describe the importance of the Internet for literature s	searching in	academia.	[BTL2]
	Part B			
SA	hort essay-type questions: Answer any four questions. $(4x3 = 12 \text{ Weightage})$	Weightage	3 for each questio	n.
8.	Explain clearly the term variance, and coefficient of v	ariation.		[BTL2]
9.	Analyze the procedure typically followed in hypothes key steps involved in drawing valid conclusions from	•		[BTL4]
10.	What are data model? Explain with examples.			[BTL2]
11.	Assume a file-processing system contains information how transitioning to a DBMS would solve the issues and inconsistency.		_	[BTL3]
12.	Evaluate the key tools used in data management, stati processing, and assess their effectiveness with relevan	-		[BTL5]
13.	Explain various features and functions of MS Word in	n data proce	essing.	[BTL2]
14.	Explain some protein databases and bibliographic datapplications.	abases, and	describe their	[BTL2]

Part C

Essay-type questions: Answer any two questions. Weightage 5 for each question. (2x5 = 10 Weightage)

15. Discuss the concept of mode, demonstrate how it is obtained using the formula, and analyze its merits and demerits in different data contexts.
16. Analyse the accuracy and reliability of statistical computations performed using computer-oriented techniques.
17. Analyse with a suitable example, the steps to perform Oneway ANOVA in SPSS. [BTL4]
18. Define protein modeling and its relevance in bioinformatics. [BTL2]
