Or

- (b) A Coin is tossed 100 times of which head comes 60 times and tail 40 times, would you accept the hypothesis that the coin is normal having no bias for either head or tail.
- 20. (a) Write about their Frequency polygon.

Or

(b) Difference between the Histogram and Bar Chart.

SECTION C — $(3 \times 10 = 30)$

Answer any THREE questions

- 21. What are the steps in planning Statistical Investigation?
- 22. Calculate Pearson's Correlation Coefficient

X 12 18 16 15 12 10 20 17 Y 6 10 9 8 9 8 12 10

- 23. One bag contains 5 white and 3 black balls. Another bag contains 4 white and 6 black balls. If one ball is drawn from each bag find the probability that
 - (a) both are white
 - (b) both are black.
- 24. Explain their Techniques of Analysis of Variance.
- 25. Write briefly about their types of Bar Diagram.

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(For candidates admitted from 2022-2023 onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022.

Biochemistry — Elective

BIOSTATISTICS

Time: Three hours

Maximum: 75 marks

SECTION A -- (20 marks)

Answer ALL the questions

- I. (A) Multiple choice questions. $(5 \times 1 = 5)$
- 1. between the investigator and the respondents
 - (a) Primary data
 - (b) Secondary data
 - (c) Tabulation
 - (d) Questionnaire
- 2. Coefficient of Range is given by
 - (a) L + S / L S
- (b) L S / L + S

(c) L-S

(d) L + S

3.	The occurrence of two or more simple events simultaneously is called	; I	[.	Answer	ALL the questions	$(5 \times 2 = 10)$
	(a) compound events (b) trial	1	1.	Define l	Biostatistics.	
	(c) simple events (d) events	1.	2.	Define Arithmetic mean and write its formula.		
4.	The variable of t- distribution ranges from		3.	What are the two important theorems of		
	(a) $0 \text{ to } \alpha$ (b) $-\infty \text{ to } \infty$			probabil	bability?	
	(c) -1 to $+1$ (d) -3 to $+3$	1	4.	Define c	hisquare test.	
5.	The multiple bar diagram contains two or more ears drawn side by side is called		5 .	Define Histogram. SECTION B — $(5 \times 5 = 25)$		
	(a) Compound bar diagram				Answer ALL the question	
	(b) Rectangles	16	3.	(a) Ex	plain the primary data.	-
	(c) Bars				\mathbf{Or}	
	(d) Simple bar diagram			(b) Ex	plain the limitations of Bio	statistics.
	(B) Fill in the blanks. $(5 \times 1 = 5)$	17	7.	(a) Ex	plain the types of Correlati Or	ions.
6.	The main objective of tabulation is ———————————————————————————————————			(b) Wh	What are the merits and demerits of harmonic mean?	
7.						a dements of
* .	direction the correlation is called ————	18	3.		olain about their theoretic	al distributions
8.	When the probability is determined before the event takes place it is called ———————————————————————————————————			and its types. Or		
9.	is the process getting a representative fraction of a population.			(b) An Urn contains 10 white, 10 black and 10 red balls. A ball is drawn out random.		
10.	in the form of vertical rectangles.		al	What is the probability that t white or red?		he ball is either
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