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PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2022 (Third Semester)

Branch - BIOCHEMISTRY

BIOSTATISTICS

		Time: Three Hours	Maximum: 50 Marks
		SEC	'TION-A (5 Marks)
			wer ALL questions
Y Y			ns carry EQUAL marks $(5 \times 1 = 5)$
1			집에 많은 살인한 수를 들고 있다. 이렇게 되었다.
1		A graph that uses vertical bars	가는 1에 보고 있다는 것이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은
		(i) Line graph (iii) Scatterplot	(ii) Bar graph
		(iii) Scauerpioi	(iv) Vertical graph
2			ncy which can't be found graphically is
		(i) Mean	(ii) Mode
		(iii) Median	(iv) None of these
3	.v		or more than two variables is called
		(i) Relation	(ii) Standard Deviation
1 6.1 (1)		(iii) Correlation	(iv) All of these
4		In a Binomial Distribution, if	n' is the number of trials and 'p' is the probability
		of success, then the mean valu	e is given by
		(i) np	(ii) n
		(iii) p	(iv) np(1-p)
5		in the control of the	ulation for testing purpose is called?
		(i) Statistic	(ii) Hypothesis
		(iii) Level of significance	(iv) Test-statistic
		SECT	ION - B (15 Marks)
	. 44.5		wer ALL Questions
		ALL Question	ons Carry EQUAL Marks $(5 \times 3 = 15)$
6		Analyza the primary data and	the methods for collecting the primary data.
U	а	Analyze the primary data and	OR
	b	Discuss the steps in conducting	가입니다 그는 가게 있는 그림을 받는 것이 되었다. 그는 생각에 되는 것이 되었다. 그 사람들이 되었다는 것이다.
7	a	Define: Standard deviation.	
, ,	h	Explain the measures of disper	OR
	υ	Explain the measures of disper	Sion and its types.
8	a	Determine the scatter diagram	and its types.
			OR
	b	Justify the term Regression an	alysis.
9	3	Evaluate the Random Variable	e in Statistics
)	а	Evaluate the Nandom Variable	OR
	b	Define: Poisson distribution.	에 다른 가는 물을 하는 것을 가게 하는 것이 있다는 것이 말을 하는 것이다. 이 나라도 있는 것을 하는 것이 없어 있는 것은 것을 하는 것이 없다.
10	a	Explain the hypothesis and its	가게 무슨 그 항문이 되는 생각이 되었다. 그 사람들은 사람들은 사람들은 사람들이 되었다.
	L	Diagram the standard amon	
	υ	Discuss the standard error.	Cont

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Categorize the various sources of Primary data:

OR

b Evaluate the graphs of frequency distribution and Classify its types.

12 a From the following data, find out the mean.

Marks (x) 10	-20 20-30	30-40	40-50	50-60	60-70	70-80
No.of 1	0 18	20	26	30	28	18
students (f)						

OR

b The following data are the height of the 10 students. Calculate Standard deviation. 60, 60, 61, 62, 63, 63, 63, 64, 64, 70

13 a Following are the ranks obtained by 10 students in two subjects, Biostatistics and Biochemistry. Compute the rank correlation.

Biostatistics	7	2	1	10	8	4	9	6	3	5
Biochemistry	9	1	2	10	7	6	5	8	4	3

OR

- b Classify the types of regression analysis.
- 14 a Find the probability of drawing an Ace; a King and a Queen from a pack of cards in 3 consecutive draws without replacement of cards drawn.

OF

- b Enumerate the importance of normal distribution.
- 15 a A sample of 1600 leaves has a mean length of 5.4" could it be reasonably regarded as a sample from a population of leaves whose mean is 5.25" and standard deviation is 2.6". Find out the level of significance.

OR

b In a random samples of 10 persons selected from a population their heights noted to be

73
1,5
_

Discuss the suggestion that the mean height of the population is 66". Find the degrees of freedom and level of significance.

Z-Z-Z

END