2023

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aniwollor anti (2nd Semester,)

PSYCHOLOGY

Paper: Psy-UG-201

(Statistics in Psychology)

Explain variability. Describe the various

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Full Marks: 70 Pass Marks: 45%

Time: 3 hours earner

(PART: B—DESCRIPTIVE)

(Marks: 45)

The figures in the margin indicate full marks for the questions

1. (a) What are the two main types of statistical methods? Describe the various scales of measurement giving appropriate examples. 3+6=9

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(b) Describe discrete and continuous variables giving appropriate examples.

Draw a frequency distribution table from the following set of scores: 4+5=9

7, 8, 10, 9, 8, 6, 9, 7, 8, 9

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(Turn Over)



2. (a) Define mean, median and mode.

Calculate the mean of the following

data:

6+3=9

8, 7, 4, 10, 8, 6, 8, 9, 9, 7, 3, 7, 6, 5, 8, 0, 9, 10, 7, 7, 3, 6, 7, 5, 2, 1, 6, 7, 10, 8

Or

- (b) Explain variability. Describe the various measures of variability. 3+6=9
- 3. (a) Discuss the main features of the normal probability curve. What are the uses of the normal probability distribution? 5+4=9

Or

(b) Explain the concept of Z-score. The marks obtained by boys and girls on IQ test is given. Is the difference between the mean marks obtained by boys and girls significant?

Boys: n = 90, Mean = 50, SD = 12 Girls: n = 100, Mean = 55, SD = 7.5

(Critical value at ·05 level = 1·96 and at ·01 level = 2·58)

4. (a) What do you mean by correlation as a statistical technique? Describe the uses of correlation in describing the characteristics of a relationship. 3+6=9

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(Continued)

Or

(b) For the following data—

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生物的复数 計畫 唯一的原始的生生

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- (i) sketch a scatter plot and make an estimate of the Pearson correlation;
- (ii) compute the Pearson correlation:

4+5=9

	X		Y
7	2	14.0	6
	1		5 3
A	3		7
	4		4

5. (a) Construct a histogram using the following set of scores:

\boldsymbol{X}	f
10–20	3
20–30	4
30-40	5
40–50	4
50-60	2

01

(b) Construct a frequency polygon using the following set of scores: 9

-	X	f
-	4–6	2
	6–8 8–10	3 3
	10–12	5
	12-14	4

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(2nd Semester)	OWI
validity ()	(a)
PSYCHOLOGY	(0)
Paper: Psy-UG-201	(0)
(Statistics in Psychology)	(d)
(PART : A—OBJECTIVE)	Marine Control of the
(Marks: 25)	
The figures in the margin indicate full marks for	the questions
SECTION—I (Marks: 15)	(c)
A. Choose the correct answer by putting a Tick in the brackets provided:	(√) mark 1×10=10
1. Increase in the value of one variable decrease in the value of the other implies	A A Marie Company of the Company of
(a) zero correlation ()	
(b) positive correlation ()	
(c) negative correlation ()	(6)
(d) no correlation ()) (L)
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2.	Con	sistency of scores obtained by students on occasions implies
	(a)	validity ()
	(b)	reliability ()
	(c)	face validity ()
	(d)	correlation (1))
	:	
3.		ch of the following is true about strength of ciation between two variables?
ie two	(a)	figures in the margin but has jull norms for
·	(0)	It can take only negative values ()
	(c)	It varies from -1.0 through 0.0 to $+1.0$
Я16) ј х [(d)	It can have any integral value ()
4.	In a of th	negatively skewed distribution, the position are mean with reference to median is
	(a)	left to the median ()
	(b)	right of the median ()
	(c)	same as the median ()
	(d)	same as the mode note (10) and (11)

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5. Norma	alized standa	ard so	ores ar	e generall	y called
(a) I	r-scores	()	range	
(b) F	-scores	(-)) mode		
(c) (C-scores) (•	cless in	(3)
(d) N	None of the	above		size of o	[0]
6. A mea	sure of the roup of peo	sprea ple is	d or va	ni won	of scores
(a) n	orm (100 '500	$\langle \hat{D} \rangle$
\ /	eliability	. ()	alterral	100
(c) s	tandard dev	<i>r</i> iation	1 3 702) 180 01 ((lad)linu	
(d) v	alidity		inviore abrigar	sample	(5)
curve?	of the foll	mont	of chile	nodmun	
(a) M	ean = Med	ian =	Mode	a. Ine va discrete) tal
(b) M	ean = Med	ian ≠	Mode) to this
(c) M	ean ≠ Medi				
(d) M	ean ≠ Medi	an ≠	Mode	to or (oMy	(6) (4)

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8. The difference between maximum and minimum scores in statistics is called		
(a)	range ()	
(b)	frequency () smooth (d)	
(c)	class interval () 2010018-0 ()	
(d)	size of class interval ()	
9. The	term 'statistical significance' means	
(a)	how important the data is for future research on the topic ()	
(b)	the conclusion that there is no reasonable alternative explanations ()	
(c)	the inference that the observed effects are unlikely to be due to chance ()	
(d)	the representativeness of the sample ()	
. tne	searcher studies the factors that determine number of children that couples decide to e. The variable 'number of children' is	
(a)	discrete variable ()	
(b)	independent variable ()	
(c)	continuous variable ()	
(d)	None of the above () ()	

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- **B.** Indicate *True* (T) or *False* (F) by putting a Tick (\checkmark) mark: $1 \times 5 = 5$
- 1. The mean, median and mode differ in a normal distribution.

(T / F)

2. The mean of a distribution of Z-scores is 0.

(T / F)

3. Correlation does not imply causation.

(T / F)

4. The equation for calculating Pearson r using Z-scores is

$$r = \frac{\sum (x_i - \overline{x})}{\sqrt{\sum (x_i - \overline{x})^2}}$$

(T/F)

5. If a curve is negatively skewed, most of the scores occur at the higher values of the horizontal axis and the curve tails off toward the lower end.

(T/F)

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SECTION—II

(Marks: 10)

C. Define the following: $2 \times 5 = 10$

The mean of a distribution of a scores is C.

If a curve is acquirely stewed most of the one for assistant terrest to the contract

2. Correlation does not larger corregions

1. Ogive

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2. Sampling error

3. Percentile rank

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4. Positive correlation

4. Positive correlation

5. Quartile deviation