Nam	le
Reg.	No

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, MAY 2014

(UG—CCSS)

Complementary Course—Psychology
PS 2C 02—PSYCHOLOGICAL STATISTICS

: Three H	ours		Maximum: 30 Weightage				
Objective Type Questions :							
Choose the correct answer. Answer all questions. Each question carries a weightage of 1/4.							
			10 .Vectors are of the deviations of a set				
(a			Positional average.				
) Harmonic value.	(d)	Discrete value.				
2 Which is used to test the reliability of an average?							
(a) Median.	(b)	Mode.				
(c) Dispersion.	(d)	Mean.				
1_6	$s \in \mathbb{N}^2$		L. Short Answer Type Questions, Answer all				
$3 \frac{1-6 \in D^2}{n(n^2-1)}$. In this formula 'D' indicates :							
			14. What are statistical amits?				
(a	Rank.	(b)	Difference between ranks.				
(c	Dispersion.	(d)	Range. Whollamedian off ennish W 21				
4 Pearsonian coefficient of correlation is denoted by the symbol:							
(a)) R.	(b)	CCR. Somerray at todW 81:				
(c)	CR.	(d)	r. What is statistical intercocs?				
Fill in the	Fill in the blanks:						
5 ——— measures the maximum variation in the values of a series.							
dalam (a)	Mean.	(b)					
(c)	Range.	(d)	Variance.				
6 Skewness means ————.							
(a)	Lack of symmetry.	(b)	Linear value.				
(c)	Curve.	(d)	Graph. American rations was safely as				

	7	7 The function of a population value is known as ———.				
		(a) Parameter.	(b)	Statistic.		
		(c) Sample.	(d)	Survey.		
	8 Rejecting a null hypothesis when it is true is ———— error.					
		(a) Standard error.	(b)	Sampling error.		
		(c) Type I error.	(d)	Type II error.		
	Ans	swer in a single word:				
	9	9 Which is single significant figure that sums up the characteristics of a group of figures.				
	10					
	11					
*	12					
				$(12 \times \frac{1}{4} = 3 \text{ weightage})$		
II.	Sho	rt Answer Type Questions. Answer	all quest	tions. Each question carries a weightage of 1.		
	13	Types of skewness.				
	14	What are statistical units?		3 n (n 2 - 1) In this formula D indicate		
	15	What is Kurtosis?				
	16	What are the mathematical proper	rties of me	edian?		
	17	What is Range?				
	18	What is variance?		(a) R		
	19	What is statistical inference?		(c), CR.		
	20	What is Quartile Deviation?		Ful in the blanks		
	21	What is a statistical average?				
				$(9 \times 1 = 9 \text{ weightage})$		
III.	Sho	rt Essay Questions. Answer any fiv	e question	ns. Each question carries a weightage of 2.		
	22	Compare mean and mode.				
	23	What is standard deviation?	(d)			
	24	What is a Scatter diagram?				
	25	What are the desirable properties	of a good	measure of variation ?		

- 26 Compare multiple and partial correlation.
- 27 Properties of a good average.
- 28 Rank Correlation.

 $(5 \times 2 = 10 \text{ weightage})$

 $(2 \times 4 = 8 \text{ weightage})$

- IV. Essay Type Questions. Answer any two questions. Each question carries a weightage of 4.
 - 29 What are the uses and importance of measures of Central tendency and measures of dispersion?
 - 30 Find the median for the following data:

 $\dots \quad 7.5 - 12.5 \quad 12.5 - 17.5 \quad 17.5 - 22.5 \quad 22.5. \ -27.5 \ 27.5 - 32.5 \quad 32.5 - 37.5$ Frequency ... 8 12 10 9

31 Calculate the variance for the following data:

Age \dots 20 - 30 30 - 40 40 - 50 50 - 60 $60 - 70 \quad 70 - 80 \quad 80 - 90$ No. of members ... 3 61 132 152 140 51