STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086 (For candidates admitted during the academic year 2023 – 2024 & thereafter)

B. Sc. DEGREE EXAMINATION, NOVEMBER 2024 PSYCHOLOGY THIRD SEMESTER

COURSE : ALLIED - CORE

PAPER : STATISTICS IN PSYCHOLOGY

SUBJECT CODE : 23PY/AC/ST35

T	IME			: 3 H	OUR	S				I	MAX.M	ARKS	:100
Q. No.	ANSV WOR		ALL 7		ECTI QUES		S NO	Г ЕХ	•		3=30) 50	СО	KL
1.	What is descriptive statistics?									CO1	K1		
2.	Defin	e disp	ersion									CO1	K1
3.	Highlight the need for acquiring knowledge about the significance of the difference between means.									CO1	K1		
4.	What	is ana	lysis c	f varia	ance?							CO1	K1
5.	List th	ne lim	itation	s of S ₁	pearma	an's ra	nk coı	relation	on coe	fficie	nt.	CO1	K1
6.	Differ	entiat	e diag	rams f	rom g	raphs.						CO2	K2
7.	How i	s arith	nmetic	mean	differ	ent fro	m me	dian?				CO2	K2
8.	Illustrate positive and negative skewness using the distribution curve representation.								CO2	K2			
9.	Distinguish between linear and non-linear correlation.								CO2	K2			
10.	Give any 2 examples where chi-square test can be used.								CO2	K2			
Q. No.	SECTION B (5 X 8=40) ANSWER ALL THE QUESTIONS NOT EXCEEDING 400 WORDS							СО	KL				
11.	b) Gro	oup th	n. Fin	into a d cum	freque ulative	(or) ency ta e and r		freq	uency	for th		CO4	K4

12.	a) Analyze the tendency.	CO4	K4			
	b) Simplify the following date					
	Monthly exp	penses list	Monthly expens			
	Rent		25000			
	Groceries		10000			
	Health care		5000			
	Kids educat	ion	15000			
	Utilities (Electricity, water, gas, etc)		5000			
	Transportati	on	5000			
	Personal care		5000			
	Savings/ Inv	vestment	10000			
13.	a) Infer the classificationb) Compare a	CO4	K4			
14.	a) Determine	CO5	K5			
	Age	No. of peo				
	20-30	4				
	30-40	6				
	40-50	3				
	50-60	2				
	60-70	9				
	70-80	7				

	and therapy Y	were used in treatm The decrease in anxi-	ent for 5	ng anxiety. Therapy and 5 individuals after the treatment f		
	4	5				
	5	8				
	7	7				
	2	4				
	Is there signification Determine which					
15.	a) Determine Spearman's correlation coefficient between the quality of sleep and productivity levels of the individuals given below:				CO5	K5
	Participants	Quality of sleep	ity of sleep Productivity level			
	CK	3	5			
	VC	6	4			
	SN	2	1			
	KD	1	3			
	BT	5	6			
	SG	4	2			
	b) Appraise th	ıs				
Q. No.	ANSWER AN)) CO	KL			
16.	Bring out the u	utility of t-distribution	on with re	elevant examples.	CO3	К3

17.	Apply the formula following data:	CO3	К3					
	Marks in psycho	No. of Students						
	0-10	2	2					
	10-20	5						
	20-30	4						
	30-40	6	6					
	40-50	3						
	50-60	14						
	60-70		26	26				
	70-80		17					
	80-90		8					
18.	Identify and explain the characteristics and properties of a normal curve along with its applications.							К3
19.	Utilize the appropriate coefficient between the individuals given	en happiness					CO3	К3
	Participants	Level of happines		Life satisfaction level				
	MN	8		9	9			
	BJ	4		3				
	CR	11		13				
	FI	9		6				
	AR	2		4				
	RS	RS 12		9				
	NB 8			4				
	VD 5			2				
	PE 10			14				
	GT	7		10				