QP Code: RM22BBA037	Reg.						
	No						



PART - A

Q.1. Answer ALL questions

GIET UNIVERSITY, GUNUPUR – 765022

AY 22

Blooms

Level

 $(2 \times 10 = 20 \text{ Marks})$ CO#

B. B. A (Fourth Semester) Examinations, May-2024 21BBAPC24001 - Research Methodology

Time: 3 hrs Maximum: 60 Marks

(The figures in the right hand margin indicate marks.)

													Level
a.	Exp	plain about research.									СО	1 K2	
b.	Wha	hat is Questionnaire?									СО	1 K1	
c.	Defi	Define Type I and Type II errors.									СО	2 K2	
d.	State	tate the Interview method.									СО	2 K2	
e.	Exp	xplain the data collection methods.									СО	3 K2	
f.	Disc	Discuss about applied research.									СО	3 K2	
g.	Exp	lain the C	Chi-Squa	re formu	la .							СО	4 K2
h.	Iden	itify the n	node for	the follo	wing da	ıta set:						СО	4 K2
	21, 1	19, 62, 21	, 66, 28,	66, 48,	79, 59, 2	28, 62, 6	3, 63, 48	3, 66, 59	, 66, 94,	79, 19 94			
i.	Calc	culate the	chi-squa	are value	Observ	ednumb	eris:6, E	xpected	number	is: 6.24		СО	1 K2
j.	j. Discuss about Estimation .										СО	2 K1	
P	ART	' – B									(8 x :	5 = 40]	Marks)
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		4 3737 T	77777 41								Marke	CO.#	Blooms
		er ANY F		_							Marks	CO#	Blooms Level
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			orimary d	ata? Des	cribe the	Methods OR)	of collec	ting Prin	nary data				Level
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Gender and Getting in Trouble at School

	Got in Trouble	Did Not Get in Trouble	Total
Boys	46	71	117
Girls	37	83	120
Total	83	154	237
		(OR)	

- b. Explain the following with diagrams
 - i) Bar Chart ii) Histogram iii) PARETO Chart
- 5.a. A Manufacturing company has purchased three new machines of different makes and wishes to determine whether one of them is faster than the others in producing a certain output. Five hourly production figures are observed at random from each other machine and the results are given below.

Observation	A1	A2	A3
1	25	31	24
2	30	39	30
3	36	38	28
4	38	42	25
5	31	35	28

Use ANOVA and determine whether the machines are significantly different in their mean speed. (given at 5% level F 2,12= 3.89)

(OR)

- b. Describe steps in hypothesis testing
- 6.a. The following table gives the monthly sales (in thousand rupees) of a certain firm in three states by its four salesmen:

States		T			
	A	В	C	D	
X	5	4	4	7	20
Y	7	8	5	4	24
Z	9	6	6	7	28
Total	21	18	15	18	72

Setup an analysis of variance table for the above information. Calculate F- coefficients and state whether the difference between sales affected by the four salesmen and difference between sales affected in three states are significant.

(OR)

b. Explain the Kruskal Wallis H test.

8 CO4 K4

CO4

CO4

K3

K4

8

8

CO4

CO4

K3

K4

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