(6 pages)	Reg. No. :	2.	A concept which can take on different quantitative values is called —————				
Code No. : 8058	Sub. Code: KCAM 51/		(a)	constant	(b)	variable	
	PCAM 54		(c)	both (a) and (b)	(d)	none	
M.C.A. (CBCS) DEGREE EXAMINATION, NOVEMBER 2019. Fifth Semester		3.	 In some instances, the most practical way of sampling is to select every ith item on a list. This type of sampling is known as 				
			sampling				
Computer Application			(a)	area	(b)	stratified	
RESEARCH METHODOLOGY			(e)	cluster	(d)	systematic	
(For those who joined in July 2016 and afterwards)		4.	 is simply a system of assignment and a symbols to events in order to label the 				
Time : Three hours	Maximum: 75 marks		(a)	nominal scale	(b)	ordinal scale	
PART A -	$-(10 \times 1 = 10 \text{ marks})$		(c)	interval scale	(d)	ratio scale	
Answer ALL questions. Choose the correct answer: 1. Simple Random sampling is also known as		5.	Expand ANOVA ————				
			(a) Algorithmic of Variance				
			(b)	(b) Analysis of Variance			
			(c)	Analysis of Vari	able		
(a) chance samp	oling		(d)	None of the abov	re		
(b) probability s	sampling	6.	Chi-square symbolically written as				
(c) both (a) and	(b)		(a)	χ^2	(b)	y^2	
(d) none			(c)	z ²	(d)	none	
				Pa	ge 2	Code No. : 8058	

	test consists of ten cards
	ring prints in ink blots
(a)	Holtzman Ink blot
(b)	Rosenzweig
(c)	Rorschach
(d)	None
A b	rief review of the main findings just in two or be pages is called ———————————————————————————————————
(a)	method of employed
(b)	summary of results
(c)	nature of the study
(d)	none
Step calle	by step procedure to solve the problem is
(a)	algorithm (b) flow chart
(c)	both (a) and (b) (d) none
The	phase consists of
liter	aulation of research problem, review of ature theoretical frame work and formulation ypothesis
(a)	Empirical
(b)	Design and Planning
(c)	Analytic
(d)	Conceptual
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PART B — $(5 \times 5 = 25 \text{ marks})$

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) List out the qualities for the "Good Research".

Or

- (b) What is the meaning of Research Design?
- (a) Differentiate: Non-probability sampling Vs Probability sampling.

Or

- (b) What is the meaning of measurement in research? Explain Nominal scale and ordinal scale in detail.
- 13. (a) What is Chi-square test? Explain its significance in statistical analysis.

Or

- (b) What is Latin square design?
- 14. (a) What are the difference between Questionnaires and schedules in collection of data?

Or

(b) What are the precautions should be taken while writing a research reports?

Page 4 Code No.: 8058 [P.T.O.]

 (a) Write any one of the solution procedure algorithm.

Or

(b) List out and explain the characteristics of a computer system.

PART C - (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) What is the meaning of research? Describe the different types of research in detail.

Or

- (b) Define the term research problem. What are the techniques involved in defining a problem?
- 17. (a) Write short note on the following:
 - (i) Systematic sampling
 - (ii) Stratified sampling
 - (iii) Cluster sampling
 - (iv) Multistage sampling.

Or

- (b) (i) List out and explain the possible sources of error in measurement.
 - (ii) Give a brief note on tests of sound measurement.

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 (a) Give a brief note on "yate's correction and its applications".

Or

- (b) What are the steps involved in one way ANOVA technique? Explain each one of them.
- 19. (a) What are the methods involved in collection of primary data?

Or

- (b) Explain about the Mechanics of writing a research report with model.
- 20. (a) How did computers play a important role in research?

Or

(b) Give a brief note on the different types of Algorithmic Research Problems.

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