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## GUJARAT TECHNOLOGICAL UNIVERSITY

MBA (International Business) - SEMESTER 2 - EXAMINATION - SUMMER 2019

Subject Code:1529301								Date:09/05/2019				
Subje	ct Na	me: Res	search	Metho	odolog	y & A	pplied	l Statis	stics			
										Total Marks: 70		
	1. At 2. M	ttempt all ( ake suitab gures to th	le assum	ptions			sary.					
Q. No.											Marks	
Q.1	Exp	lain follov (a) Depth (b) Type- (c) Ordina (d) Doubl (e) Comp (f) Quota (g) Param	Intervie 1 and Ty al Scale e-Barrel letion Ta Samplir	w pe-2 Ei led Que usk of F ng	estions	e Techi	nique				14	
Q.2	(a)	What is business	-			•			ion instru in detail.		07	
	(b)	Define Primary & secondary data and explain the methods of secondary data collection in brief.										
	(b)	"Researce which we statement	ill be he	elpful to	o the so	ting Le ciety at	large"	– Do ye	ou agree	0	07	
Q.3	(a)	"Exploratory research design is not conclusive in nature" – Comment on the statement and briefly explain Focus Group and Expert Interview methods.									07	
	(b)											
	Marks in 2 <sup>nd</sup> Subject:											
		10	9	11	12	11	10	11	12	10		
		11	10	9	8	10	7	9	10	11		
		10	12									



Firetsanker's the data given with the fire the fire the mining whether the stream of the data given with the time the second stream the se frequencies represent a uniform distribution. Use  $\alpha$ =5%

Category	1	2	3	4	5	6	7	8	9	10
Observed	19	15	12	17	20	21	22	15	14	13
Value										

- (b) Briefly discuss the techniques of Multiple item scales under 07 Measurement Scales.
- (a) It is observed that the average monthly Income of a family during the 07 0.4 economic boom is Rs. 75,000 per month. A researcher is conducting a study on the impact of economic recession in 2008. The researcher believes that the economic recession may have an adverse impact on the average monthly income. For verifying his belief, the researcher has taken a random sample of 20 families and computed their average income during the recession period. The average income of these 20 graduates is computed as Rs. 60,000. The sample standard deviation is computed as Rs. 3000. Use  $\alpha$ =5% to test the hypothesis that average income of sample and population are equal.
  - Write a note on Non-Parametric Test and explain any one non-07 **(b)** parametric test with hypothetical examples.

## OR

**Q.4** (a) A Kitty-Party club arranged a special training program for girls on 07 cooking. The club wants to measure the time taken (in minutes) by female participants i.e. before the training and after the training. The club has selected a random sample of 10 girls. The scores obtained by these participants are given in below table. Use  $\alpha = 10\%$  to determine whether there is a significant change in time taken.

Before	32	30	32	34	32	28	25	30	25	28
Training					<sup>Q</sup>	*				
After	25	26	28	22	20	30	22	20	21	24
Training				Y C	*					

- (b) Briefly discuss the random sampling methods.
- Q.5
- A researcher wants to carryout a research on "A Study on Use of IT and ICT in Higher Education: A comparative study of Commerce and Management Aspirants". The study focuses on habits of the students of using Information Technology for their study purposes.
- Prepare a Research Proposal on the above-mentioned research title 14 (a) considering all the components of ideal Research Proposal.

## OR

Based on the title given above, you are required to prepare a 14 **Q.5** (a) questionnaire for data collection. The questionnaire must be divided into two segments i.e. Demographic Questions and Study based Questions.

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