GUJARAT TECHNOLOGICAL UNIVERSITY

M.B.A -Ist SEMESTER-EXAMINATION -JUNE- 2012

Subject code: 2810006 Date: 13/06/2012

Subject Name: Research Methodology (RM)

Time: 02:30 pm – 05:30 pm Total Marks: 70

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	A two-wheeler manufacturing company wants to study the satisfaction						
	,	level of its customers. The company appoints you as researcher for this						
		project. Prepare a questionnaire for conducting this survey.						
	(b)	Discuss various steps of business research process.	07					
Q.2	(a)	What are the four basic levels of measurement? Explain each one with						
	, ,	suitable example.						
	(b)	Depict your understanding for research design. How descriptive						
		research is differing from casual research?						
		OR						
	(b) What do you understand by extraneous variables? Discuss some of the							
	extraneous variables that affects the validity of experiment.							
Q.3	3 (a) In business research errors occurs other than sampling error. What							
		different non-sampling errors?						
	(b)	Explain stratified sampling and cluster sampling methods.	07					
		OR						
Q.3	(a)	Data coding and data editing are two important activities in business	07					
		research. Do you agree? Support your answer with proper explaination.						
	(b)	Explain univariate, bivariate and multivariate analysis with examples.	07					
Q.4	(a)	Prepare a research proposal to study the consumer preference and	07					
		satisfaction for Tata Nano in the state of Gujarat.						
	(b)	A consumer research firm routinely selects several car models each	07					
		year and evaluates their fuel efficiency. In this year's study of two						
		similar sub-compact models from two different automakers, the						
		average mileage of 12 cars of brand 'A' was 27.2 kmpl, and standard						
		deviation was 3.8 kmpl. The nine brand 'B' cars that were tested						
		averaged 32.1 kmpl, and the standard deviation was 4.3 kmpl. At $\alpha =$						
		0.01, should it conclude that brand 'A' cars have lower mileage than						
		do brand 'B' cars?						
		OR						
Q.4	(a)	A shampoo manufacturing firm wanted to test the claim that its brand	07					
		is used more by male than female. A sample of 100 consumers was						
		drawn at random in which there were 60 females and 40 males. It was						
		found that 30 females and 24 males used the brand regularly. Do the						
		results support the aforesaid hypothesis at 5% level of significance?						
	(b)	From the following table find out if there is any association between the	07					
		family size and the size of the soft drink bottle purchased by the consumer						
		family. Use 5% level of significance.						

http://ww	w.guja	ratstu boegensize	Family size					
			1-2	3-4	5 or more	Total		
		250 ml	30	20	10	60		
		500 ml	15	60	65	140		
		1000 ml	05	50	90	145		
		Total	50	130	165	345		
								07
Q.5	(a)	What do you understand by hypothesis testing? Discuss step by step						
		hypothesis testing	g proces	SS.				
	(b) What are the key points to keep in mind while writing a research report? OR Q.5 (a) Distinguish between qualitative and quantitative research. (b) What are the different data collection methods? Discuss any two in							
Q.5								
		detail.					•	
