Name:

Enrolment No:



UPES End Semester Examination, May 2024

Course: Business Research Methods Program: MBA Course Code: DSRM7002 Semester: II Time: 03 hrs Max. Marks: 100

Instructions:

SECTION A 10Qx2M=20Marks				
Q 1	Select the most appropriate		CO1	
Q1	Select the most appropriate i. A simple random sample is one in which: A From a random starting point, every nth unit from the sampling frame is selected B A non-probability strategy is used, making the results difficult to generalize C The researcher has a certain quota of respondents to fill for various social groups D Every unit of the population has an equal chance of being selected ii. Closed ended questions are those that: A Have a fixed range of possible answers B Prevent respondents from allocating themselves to a category C Encourage detailed, elaborate responses D Relate to the basic demographic characteristics of respondents iii. The purpose of a coding manual is to: A Provide a form onto which the data can be entered B Provide researchers with instructions about how to code the data C List all the categories that have been omitted from the schedule D Test researchers' knowledge of statistics iv. What is meant by the term "grounded theory"? A Theories should be tested by rigorous scientific experiments B As a social researcher, it is important to keep your feet on the ground C Theories and concepts should emerge from the data	10x2		

	. Which of the following is an advantage of qualitative interviewing elative to participant observation?		
	It allows you to find out about issues that are resistant to observation		
	It is more biased and value-laden		
	It is more likely to create reactive effects		
	None of the above		
A	i. How might qualitative research facilitate quantitative research? By providing hypotheses that can later be tested By helping with the design of survey questions		
C	By informing the schedule of a structured interview All of the above		
	ii. Which of the following is not a limitation of the focus group nethod?		
	The researcher has little control over how the discussion proceeds		
	It reveals the way social meanings are jointly constructed		
	It produces a large volume of data that can be difficult to analyse		
	People in groups tend to agree and express socially desirable views		
	iii. Which of the following is not a type of research question?		
	Predicting an outcome		
	Evaluating a phenomenon		
	Developing good practice		
	A hypothesis		
	x. If a study is "reliable", this means that:		
	The measures devised for concepts are stable on different occasions		
	It was conducted by a reputable researcher who can be trusted		
	The findings can be generalized to other social settings The methods are stated clearly enough for the research to be replicated		
L	The methods are stated clearly enough for the research to be replicated		
х	. When planning to do social research, it is better to:		
	Approach the topic with an open mind		
	Do a pilot study before getting stuck into it		
	Be familiar with the literature on the topic		
Γ	Forget about theory because this is a very practical undertaking		
I	SECTION B		
	4Qx5M= 20 Marks		1
	Discuss Delphi technique and Special focused group (SFG) discussions as		
	nethods for gathering qualitative data in research. Elaborate on some	5	CO
S	tuations where these techniques may be useful.		1

Q 3.	A local grocery store is interested in gathering feedback from its customers about their shopping experience. The store manager decides to conduct a survey by asking customers to fill out a questionnaire at the checkout counter. What sampling method would you recommend for the grocery store's survey, and why?	5	CO2
Q 4.	A multinational corporation specializing in technology products is experiencing declining sales for one of its flagship smartphones in a specific market segment. The company wants to investigate the reasons behind this decline and develop strategies to reverse the trend. Which research approach will you use and also state the research problem.	5	CO2
Q 5.	A marketing research firm is hired by a cosmetics company to conduct a study on consumer preferences for skincare products. The company wants to understand which factors influence consumers' purchasing decisions and which product features are most important to them. What data collection methods would you recommend the marketing research firm to use for this study and why?	5	CO2
	SECTION-C 3Qx10M=30 Marks(Answer any three)		
Q 6.	A farming company wants to know if a new fertilizer has improved crop yield or not. Historic data shows the average yield of the farm is 20 tonne per acre. They decide to test a new organic fertilizer on a smaller sample of farms and observe the new yield is 20.175 tonne per acre with a standard deviation of 3.02 tonne for 12 different farms. Did the new fertilizer work?	10	CO3
Q 7.	Twelve cars were equipped with radial tires and driven over a test course. Then the same 12 cars (with the same drivers) were equipped with regular belted tires and driven over the same course. After each run, the cars' gas economy (in km/l) was measured. Is there evidence that radial tires produce better fuel economy? (Assume normality of data, and use level of significance = .05) Car Gas eco. 1 2 3 4 5 6 7 8 9 10 11 12 Y ₁ (radial) 4.2 4.7 6.6 7.0 6.7 4.5 5.7 6.0 7.4 4.9 6.1 5.2 Y ₂ (belted) 4.1 4.9 6.2 6.9 6.8 4.4 5.7 5.8 6.9 4.7 6.0 4.9	10	CO3

	In Trichy district out of a sample o	· •		e				
	regular consume	1				ets	10	CO3
	reveal a significa	ant difference	e between th	e two districts a	as far as a t	ea-	10	
	drinking habit is	concerned?	Test this at 19	% level of signifi	icance.			
9.	B.Tech. Students	B.Tech. Students of UPES studied which vehicles come to a complete stop						
	at an intersection with four-way stop signs, selecting at random the cars to							
	observe. They looked at several factors to see which (if any) were					ere		
	associated with c	oming to a c	complete stop	. (They defined a	a complete st	top		
	as "the speed of t	he vehicle w	ill become zer	ro at least for an	instant"). So	me	10	
	of these variable	es included t	he age of the	e driver, how m	any passeng	ers		
	were in the vehi	cle, and typ	e of vehicle.	The variable w	ve are going	to		
	investigate is the	arrival pos	ition of vehic	les approaching	an intersect	ion		
	all traveling in th	e same dire	ction. They cl	assified this arri	val pattern i	nto		
	three groups: whether the vehicle arrives alone, is the lead in a group of					of		
	vehicles, or is a follower in a group of vehicles. The students studied one					one		
	specific intersection in Dehradun at a variety of different times. Because					use		
	random assignment was not used, this is an observational study. Also note							
	that no vehicle from one group is paired with a vehicle from another group.					up.		CO3
	In other words, there is independence between the different groups of					of		
	vehicles. Use a 0.05 level of significance.							
		Single Vehicle	Lead Vehicle	Followin g Vehicle	Total			
	Complete Stop	151	38	76	265			
	Not Complete Stop	25	5	22	52			
	Total	176	43	98	317			

	SECTION-D 20x15M= 30 Marks				
Q 10.	Qx15M= 30 Marks Keep Your City Clean: Environmental ConcernsOver the last decade, recycling of household waste has become an extremely important behavior across the nations. However, in Asian countries this fluctuates from one country to the other. China is the leader amongst waste management while India, an equally large country. Still has 	15	CO4		
	 to check that her ideas, about convenience and recycling, were on the right track. To do this, she decided to conduct some research into attitudes towards household recycling. 1. What is the kind of research design you would advocate here? 2. Identify your variables and the population under study. 3. Can you suggest any alternative design? Why/why not? 				
Q 11.	 Shameem had been with the organization for a fortnight now and was due to meet Raghu. He opened the door and walked in. Raghu asked him to be seated and said, 'So doctor, what is the diagnosis?' Shameem Naqib had been recently hired as the company counsellor at Danish International, as Raghu Narang, the CEO, felt that he was fed up with his team of non-performers. He had hand-picked the Band II decision makers from the most prestigious and growing enterprises. Each one came with a proven track record of strategic turnarounds they had managed in 	15	CO4		

competitive, reasonable autonomy was permitted in decision-making and yet nothing was moving.	
There had been two major mergers and the responsibilities had increased somewhat. When Shameem went to meet Sid Malhotra, the bright star who had joined six months back, he was reported absent and seemed to be suffering from hypertension and angina pain. His colleague in the next cabin was not aware that Sid had not come for the past four days. As he was talking to Raghu's secretary, he could hear Kamini Bansal, the HR head, yelling at the top of her voice at a new recruit, who after six weeks of joining had come to ask her about her job role.	
The Band III executives had been with the company for a tenure of $5-15$ years and yet had not been able to make it to the Band II position (except two lady employees). They were laidback, extremely critical and yet surprisingly were not moving.	
Raghu also seemed a peculiar guy, he had hired him as the counsellor and was also making some structural changes as suggested by a Vastu expert, to nullify the effect of 'evil spirits'. He had a history of hiring the best brains, and then trying to fit them into some role in the organization. And in case someone did not fit in, firing him without any remorse. He had changed his nature of business thrice and on the personal front, he was on the verge of his second divorce. The company had a great infrastructure, attractive compensation packages and yet the place reeked of apathy. It was like a stagnant pool of the best talent. Was it possible to undertake- operation clean up?	
(a) What is the management decision problem that Shameem is likely to narrate to Raghu Narang?	
(b) Convert and formulate it into a research problem and state the objectives of your study.	