

## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Term Examination, May 2019

Course: Business Research Methods Programme: MBA (OG) Course Code: DSRM 7002 Semester: II Max. Marks: 100 Time: 03 hrs.

Instructions: Simple Calculator is allowed (not the scientific one with 991-function). Statistical Tables and graph sheets will be provided by SRE. Try to maintain the sequence while answering. Please do not get involved in any unfair means. Do not argue with invigilators during exam.

		SECTION A		
S. No.			Marks 15*2=30	COs
Q 1	I.	You're doing a paper on death and dying due to bike accident in Dehradun and in the course of your research you have talked to a family friend whose child recently died. You want to include something she said to you, although it is not a quotation. Do you have to reference this, and if so, how would you do it?		CO1
		<ul> <li>a) Put a parenthetical note (if in APA style, which is suitable for social science) as follows: (I. Philip, personal communication, March 10, 2019) but do not put into the reference list.</li> <li>b) Since no one could check on this, and you are really putting it into your own words, it is not necessary to cite it at all.</li> <li>c) It is sufficient to mention in your text that a friend had experienced this</li> </ul>		
		situation.		CO1
	II. III.	<ul> <li>Sampling error is reduced by <ul> <li>a) Increasing Sample Size</li> <li>b) Decreasing Sample Size</li> <li>c) Reducing Amount of Data</li> <li>d) None of the above</li> </ul> </li> <li>The benefits of using citation and the appropriate style are: <ul> <li>a) You are providing hard evidence or expert witnesses to support your argument.</li> <li>b) You let your reader know that you are working within the academic tradition.</li> <li>c) You avoid charges of plagiarism.</li> <li>d) All of the above.</li> </ul> </li> </ul>		CO2
				CO1

<ul> <li>IV. A distinction between exploratory and descriptive interviewing would be that <ul> <li>a) Exploratory is looking for quantification of findings, descriptive is looking for insight</li> <li>b) Exploratory is looking for insight, descriptive is looking for quantification</li> <li>c) Exploratory typically would involve conducting more interviews than descriptive</li> <li>d) There is no distinctionthey would both be conducted the same way</li> </ul> </li> <li>V. The three object of research are to conduct general exploration of the issue, to describe a population, and to attribute cause and effect relationship among two or more variable. <ul> <li>a) False</li> <li>b) True</li> </ul> </li> <li>VI. If Research team of Uttareakhand Rural Development is trying to study the reason of migration and want to conduct a survey, the data has to be taken in the following scale <ul> <li>a) Ordinal &amp; Interval</li> </ul> </li> </ul>	
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$1 \to 1 \to 1 \to 1$	CO2
b) Nominal & Ordinal	
c) Interval & Ratio	
d) None of the above	
VII. You like the examples or illustrations several authors have used to prove a point and	
you want to pull them all together and use them in your own paper in a list. What	
ought you to do?	
a) Examples used to prove a point are managed a little differently than opinions,	
ideas or facts. These are treated the same way we would treat common	CO1
knowledge, and not referenced.	
b) Include a citation after each separate example to indicate where you found them.	
c) Include them in one parenthetical citation or endnotes after you have finished	
listing them.	
VIII contains a small number of people (usually 8-12) and is convened to	
address topics introduced by a group moderator	
a) In-depth interviews	
b) Focus group	
c) Abstract group	
d) Cross Sectional group	
	CO2
IX. P-value should be more than ' $\alpha$ ' to accept null hypothesis	
a) True	
b) False	1 1

c) None of these	CO1
<ul> <li>K. Researcher uses the qualitative paradigm for one phase and the quantitative paradigm for another phase is known as</li></ul>	
<b>onclusion:</b> It's a great initiative by college for enhancing and uplifting students' talent moral and their study fe balance and by going on process it will add value in college reputation and excellence.	
In addition to this survey one more data were matched in this regard that is mid term marks of Graduating batches which is significantly lower tis time i.e 36% Do you think there is some error on researcher's part? If yes, where is it?	
<ul><li>a) In Conclusion</li><li>b) In Sampling technique</li><li>c) In taking sample size</li><li>d) All of the above</li></ul>	
<ul> <li>I. Which is the supportive Null hypothesis for the assumption: "Better placement of an Individual has some link with their parent's higher education level"</li> <li>a) H<sub>0</sub>: Placement is dependent on Parent's education level</li> <li>b) H<sub>0</sub>: Placement of Individual is independent of Parent's Education level</li> <li>c) H<sub>1</sub>: Placement e is dependent on Parent's education level</li> <li>d) H<sub>1</sub>: Placement dependent on Parent's education level</li> </ul>	
<ul> <li>If P- value in any test is 0.0045 against the sampling error of 5% then researcher will</li> <li>a) Accept null Hypothesis</li> <li>b) Reject null hypothesis</li> <li>c) Moderate null hypothesis</li> </ul>	
<ul> <li>V. Non Sampling error is <ul> <li>a) Type II error</li> <li>b) Data Entry Error</li> <li>c) P-value</li> <li>d) Fail to reject False Null Hypothesis</li> </ul> </li> <li>V. What is wrong in this question? <ul> <li>"Have you got campus placement? What is your package and profile?"</li> </ul> </li> </ul>	
	<ul> <li>Researcher uses the qualitative paradigm for one phase and the quantitative paradigm for another phase is known as <ul> <li>a) Action Research</li> <li>b) Mixed method Research</li> <li>c) Causal Research</li> <li>d) Quantitative research</li> </ul> </li> <li>Wow Wednesday initiative taken by college for students to reduce pressure, work load from students, and make them perform in a better way and enthusiastic way. So in order to check with students about Wow Wednesday → what they feel, how they feel and what so good about that and how can it be improvise.</li> <li>5 students in this campus interviewed for this survey and the final conclusion were as follows:</li> <li><i>order to check</i> with students about Wow Wednesday → what they feel, how they feel and what so good about that and how can it be improvise.</li> <li>5 students in this campus interviewed for this survey and the final conclusion were as follows:</li> <li><i>order to check</i> with students about Wow Wednesday → what they feel, how they feel and what so good about that and how can it be improvise.</li> <li>5 students in this campus interviewed for this survey and the final conclusion were as follows:</li> <li><i>order to check</i> with students about Wow Wednesday → what they feel and what so good about that and how can it be improvise.</li> <li>In addition to his survey one more data were matched in this regard that is mid term marks of Graduating batches which is significantly lower tis time i.e 36% Do you think there is some error on researcher's part? If yes, where is it?</li> <li>a) In Conclusion</li> <li>b) In Sampling technique</li> <li>c) In taking sample size</li> <li>d) All of the above</li> </ul> <li>Which is the supportive Null hypothesis for the assumption: "Better placement of an Individual has some link with their parent's education level?</li> <li>b) <i>H</i><sub>0</sub>: Placement is dependent on Parent's education level?</li> <li>c) <i>H</i><sub>1</sub>: Placement eis dependent on Parent's education level?</li> <li>d) <i>H</i><sub>1</sub>: Placement eis depe</li>

		<ul> <li>a) Language</li> <li>b) Duplicity</li> <li>c) Double barreled</li> <li>d) Sequencing</li> </ul> SECTION B								
	I				SECTION D					
	1	-		ns in this section:				(4*5=20)		
Q2	a) 1 b) 1	n Dehra	dun I 1 Nor	et and variable in the following of the second state of the second state of the second state of the second	stands at 66.4%	, 0		5	CO2 & CO3	
Q3.	A researcher is interested in determining the average number of years employees of a company stay with the company. If past information shows a standard deviation of 7 months, what size sample should be taken so that at 95% confidence the margin of error will be 2 months or less?						, 5	CO3 & CO4		
Q4.	<ul> <li>4. Identify null and alternative hypotheses for the following assumptions:</li> <li>a) It has been stated that 75 out of every 100 people who go to the movies on Saturday night buy popcorn.</li> <li>b) The manager of a restaurant believes that it takes a customer no more than 25 minutes to eat lunch</li> </ul>							5	CO3 & CO4	
Q5.	Followin rejection									
	One Sample Test								CO4	
		t	df	Sig(2-taild) P-Value	Mean Diff.	Confident	ce Interval Upper			
	Score	1.180	9	0.268	3.800	-3.4859	11.0859			

SECTION-C Attempt any three questions in this section       CO2         Q6.       A movie producer is bringing out a new movie. In order to map out his advertisement campaign, he wants to determine whether the movie will appeal most to a particular age group or ir will appeal equally to all age groups. The producer takes a random sample form the persons attending the preview of the movie and obtain the following results. Use chi square test to derive the conclusion.(for six degree of freedom ad 55 level of significance, $\chi^2$ critical value is 12.592.       10       CO4         Q7.       An automobile manufacturer stated that it will be willing to mass produce electric-powered cars if more than 30% of potential buyers indicate they will purchase the newly designed electric cars. In a sample of 500 potential buyers, 160 indicated that they would buy such a product.       CO2       CO2         Q8.       What <u>sample design</u> would you select for each of the following study (justify your sampling technique):       10       CO4         Q8.       What <u>sample design</u> would you select for each of the following study (justify your sampling technique):       10       CO2									
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Liked the Movie       320       80       110       200         Disliked the Movie       50       15       70       60         Indifferent       30       5       20       40         Q7.       An automobile manufacturer stated that it will be willing to mass produce electric-powered cars if more than 30% of potential buyers indicate they will purchase the newly designed electric cars. In a sample of 500 potential buyers, 160 indicated that they would buy such a product.       10       CO2         a)       State the hypotheses for this problem       b)       CO4       &         b)       Compute the standard error.       c)       CO5       CO5         Q8.       What sample design would you select for each of the following study (justify your sampling technique):       10       CO2         a)       A study to find out the household expenditure on make over by various income       10       CO2			Under 20	20-39	40-50	60 and above			CO5
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a) A study to find out the household expenditure on make over by various income	Q8.		select for e	each of	the follow	wing study (just	ify your		
a) A study to find out the household expenditure on make over by various income		sampling technique):						10	
		a) A study to find out the ho	ousehold exi	penditu	re on ma	ke over by vario	ous income	10	
		groups							

	b) A sample of 2000 households has been chosen, subject to the condition that 1200 of		
	these should be from rural areas and 800 from urban areas of the territory		
	c) Factors Influencing the Attractiveness of a Tourist Destination		
Q9.			
	Differentiate three type of business research(exploratory, descriptive, causal) based on		
	following Characteristic:		
	a) Research Objective		
	b) Key Research Statement: Research Question/Hypothesis		
	c) Structured/Unstructured Research Methodology		
	d) Flexibility of Research Process		
	e) Small/big Sample size		
	f) Analytical Tool		CO2
	g) Example		&
		10	CO4
			&
			CO5
	SECTION-D	<u> </u>	l
010			
Q10.		20	
	Case Study		CON
	A Britannia industry limited is successful Indian company since 1892, started in India with initial investment of		CO2 CO3
	Rs.295. this company is very well known for its biscuits (Britannia & Tiger). Britannia is one of the largest		&
	biscuits selling company and leading biscuit firm of India with estimated 38% market share.		<b>a</b> c =
	( <u>www.britannia.co.in</u> )		CO5

In 1997, Britannia jumped into dairy product market with its two new products (Processed Cheese & Dairy Whitener), In 2002, Britannia's New Business Division namely 'Britannia Milkman' formed a joint venture with Fonterra, the world's second largest Dairy Company, and Britannia New Zealand Foods Pvt. Ltd. was born. (www.wadiagroup.com)

India is a country of milk lovers. Milk is consumed direct as well as milk products like cheese, khoya, sweets etc. its supply comes mostly from unorganized sector, except in big cities of the country. Though demand for milk is very large in the country, Delhi is the country's largest milk market. At the beginning of 2004, the milk supply to Delhi was 54-lakh liter per day. The organized industry accounted for around 27 lakh liters per day. Mother Dairy is the market leader at 18 lakh liters and Delhi Milk Supply at @ lakh liters. Amul recently crossed the 75,000-liter mark.

In May 2001, Britannia launched Milkman (Britannia's Milk Brand) in North India, and sold around one-lakh liters per day, sourced from modern dairy Karnal. Premium pricing strategy adopted during the milk crisis in Delhi and erratic supply saw its share fall to 25,000 liters per day. Britannia then transfer its dairy business comprising of milk, butter, cheese to a joint venture company set up with Fonterra Cooperative Group, New Zealand's leading dairy cooperative, in March, 2002. The company is engaged in sourcing, manufacturing and distribution of milk and milk products in India. This company got into an arrangement with Mother Dairy in Karnal to feed Delhi and other Satellite markets but industry sources point out that the capital city is tough market to crack. Mother Dairy and late entrant Amul are large players with core competency in milk sourcing and distribution. They determine milk prices and small players follow suit. In this scenario, if a company tries to sell at a premium without being sure of the supply, it is bound to run into trouble.

Britannia is exiting the milk business in Delhi, country's most lucrative milk market. The company has already withdrawn from Kerala and Tamil Nadu two months back. "We did not meet our objectives in Delhi. The business did not add to our bottom line," said Mr. Naveen Chopra, General Manager, Dairy Foods, and Britannia. "But we will continue with liquid milk in Mumbai, Pune, Hyderabad and Kolkata."

Sources said Britannia lost out because it could not manage costs and were forced to increase price to protect bottom line. However, customers were not willing to pay extra for Milkman as most treat milk as standard food item just as salt and flour. The shrunken consumer base forced the company to slash price by a rupee but Mother Dairy, Amul and Paras were still cheaper.

Now Britannia, consult some research firm ABC to study the consumer to plan a new strategy for sustainable business. You have just joined this research and consultancy firm and given this task. Submit your plan of doing this study around these following points.

- i. Business Problem
- ii. Research Problem
- iii. Research Question
- iv. Research methodology
- v. Questionnaire designing

Set –2

Enrolment No:



## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Term Examination, May 2019

Course: Business Research Methods Programme: MBA (OG) Course Code: DSRM 7002 Semester: II Max. Marks: 100 Time: 03 hrs.

Instructions: Simple Calculator is allowed (not the scientific one with 991-function). Statistical Tables and graph sheets will be provided by SRE. Try to maintain the sequence while answering. Please do not get involved in any unfair means. Do not argue with invigilators during exam.

		SECTION A		
S. No.			Marks	COs
Q 1	I.	Qualitative method of research include:		CO1
		a) Ethnography		
		b) Extended case studies		
		c) Focus group		
		d) A and B		
		e) A, B and C		
	II.	contains a small number of people (usually 8-12) and is convened to		
		address topics introduced by a group moderator		
		a) In-depth interviews		
		b) Focus group		
		c) Abstract group		
		d) Cross Sectional group		
	III.	Sampling error is reduced by		
		a) Increasing Sample Size	(10*3=30)	CO1
		b) Decreasing Sample Size	(10 5-50)	
		c) Reducing Amount of Data		
		d) None of the above		
	IV.	A distinction between exploratory and descriptive interviewing would be that		
		a) Exploratory is looking for quantification of findings, descriptive is looking for insight		CO2
		b) Exploratory is looking for insight, descriptive is looking for quantification		
		<ul> <li>c) Exploratory typically would involve conducting more interviews than descriptive</li> </ul>		
		d) There is no distinctionthey would both be conducted the same way		
	V.	The three object of research are to conduct general exploration of the issue, to describe		CO1
		a population, and to attribute cause and effect relationship among two or more		
		variable.		
		a) True		

	b) False		
VI.	a) A comparison of two or more variables longitudinally		CO2
	b) A design that is divided when the researcher is in a bad mood		
	c) The collection of data from more than one case at one moment in time		
	d) Research into one particular section of society, e.g. the middle class.		
VII.	P- value in any test is 0.0045 against the sampling error of 5% then researcher will		CO3
	e) Accept null Hypothesis		
	f) Reject null hypothesis		
	g) Moderate null hypothesis		
	h) Chang null hypothesis		
ΊΠ.	If Research team in Dehradun is trying to study the reason of migration and want to		~~~
	conduct a survey, the data has to be taken in the following scale		CO2
	e) Ordinal & Interval		CO1 CO1
	f) Nominal & Ordinal		C01
	g) Interval & Ratio		
	h) None of the above		
IX.	How do researchers maintain ethics while doing research		
	a) By doing Acknowledgement		
	b) By doing proper citation		
	c) By referencing		
	d) All of the above		
	X. Which is the supportive Null hypothesis for the assumption: "Better placement of an		
	Individual has some link with their parent's higher education level"		
		<u> </u>	

		U · Diagomentia der	ndont on D	pront's	ducation						
	e) $H_0$ : Placement is dependent on Parent's education level f) $H_0$ : Placement of Individual is independent of Parent's Education level										
				-			level				
	_	$H_1$ : Placement e is dep $H_1$ : Placement depend	-								
	h) .										
	r			SECTIO	5112				•		
	Attempt all 4	Attempt all 4 questions in this section:									
Q2.	A researcher is interested in determining the average number of years employees of a								CO3		
•	company stay with the company. If past information shows a standard deviation of 8 month								&		
	what size sample should be taken so that at 95% confidence the margin of error will be 3								CO4		
02	months or less?A movie producer is bringing out a new movie. In order to map out his advertisement										
Q3.	1	00			1						
•		wants to determine will appeal equally to all									
		tending the preview of									
		derive the conclusion									
	$\chi^2$ critical value		````								
							_				
					ge Group		_				
			Under 20	20-39	40-50	60 and above					
		Liked the Movie	320	80	110	200	1				
		Disliked the Movie	50	15	70	60					
		Indifferent	30	5	20	40					
Q4.	1. Identif	y null and alternative	e hypotheses	s for the	followi	ng assumptions	:				
						_			~ ~ ~ ~		
		has been stated that 75		ry 100 p	beople wl	ho go to the mo	vies on		CO3		
		turday night buy popc e manager of a restau		e that it	takes a c	rustomer no mo	re than 25	5	&		
		nutes to eat lunch		s that h	taxes a v			5	a		
									CO4		
Q5.	Explain the Res	earch Process whose fi	ndings are as	s follows	:						
•	Einding: 54% o	f the tourists are in the		sf 20_20	Wears 6	1% of the tourist	s are European				
	-	them are low class tou			•		•				
	sightseeing. Around 56% of international tourists stay at Varanasi for 1–7 days. As far as the								CO2		
	occupation of f										
	foreign tourists	while Govt. officers/Bu	ureaucrats ac	count fo	or the low	vest share (3.6%)					
				SECTIO	DN-C						
	<b>A</b> 44 a mar in 4 d	an action - in (1 i ) (i						[			
	Attempt two	questions in this secti	ion:					(2*15=30)			

Q6.											
	An automobile manufacturer stated			0 1	-		CO2				
	cars if more than 30% of potential buyers indicate they will purchase the newly designed electric cars. In a sample of 500 potential buyers, 160 indicated that they would buy such a product.										
	<ul><li>a) State the hypotheses for th</li><li>b) Compute the standard error</li><li>c) Compute the test statistic.</li></ul>		15	CO4							
	d) At 95% confidence, what the new electric powered of	is your co	onclusion	Should the n	nanufacturer produce		&				
							CO5				
Q7.	A movie producer is bringing out a new movie determine whether the movie will appeal movies groups. The producer takes a random sample the following results. Use chi square test to disignificance, $\chi^2$ critical value is 12.592.	st to a parti form the p	icular age gi persons atter	oup or it will ap ding the previev	peal equally to all age v of the movie and obtain		CO2 &				
			Age Group			15					
	Und	er 20 20-		60 and above		15	CO4				
	Liked the Movie 320	80	110	200							
	Disliked the Movie 50	15	70	60			&				
	Indifferent 30	5	20	40			α				
							CO5				
			SECTION	N-D							
Q8.	Design a Questionnaire to study the i and prepare a report taking help of gr	-			• •	30	CO4				
						20					