Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, May 2019

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

S. No.		Marks	СО
Q 1	Select the most appropriate answer	(1x20)	
	i. Testing hypothesis is a		CO4
	a. Inferential statistics		
	b. Descriptive statistics		
	c. Data preparation		
	d. Data analysis		
	ii. The purpose of a literature review is to:		CO1
	a. Use the literature to identify present knowledge and what is unknown		
	b. Assist in defining the problem and operational definition		
	c. Identify strengths and weaknesses of previous studies		
	d. All of the above		
	iii. Which method can be applicable for collecting qualitative data?		CO3
	a. Artifacts (Visual)		
	b. People		
	c. Media products (Textual, Visual and sensory)		
	d. All of these		
	iv. Research methodology' refers to:		C01
	a. The sampling technique.		
	b. The tools that the researcher uses.		
	c.The chain of association between the research question and the research design.		
	d.Qualitative methods.		
	v. Exploratory research addresses which of the following types of question?		CO2
	a. If		
	b. How		
	c. Why		
	d. What		
	vi 'There is no difference in the incidence of phlebitis around intravenous		CO4

cannulae changed every 72 hours and those changed at 96 hours' is an example	
of a:	
a. Null hypothesis	
b. Directional hypothesis	
c. Non-directional hypothesis	
d. Simple hypothesis	
vii. Which one of the following in not a major method of data collection:	CO3
a. Questionnaires	
b. Interviews	
c. Secondary data	
d. Focus groups	
e. All of the above are methods of data collection	
xiii . A census taker often collects data through which of the following?	CO3
a. Standardized tests	000
b. Interviews	
c. Secondary data	
d. Observations	
ix. Hypothesis test may also be called as:	
a. Informal test	CO4
b. Significance test	
c. Moderating test	
d. t-test	
x. How many times the students appear in the research class is the example	CO4
of	
a. Intensity	
b. Space	
c. Frequency	
d. Direction	
xi. Determining the sample interval (represented by k), randomly selecting a	COI
number between 1 and k, and including each k th element in your sample are the	
steps for which form of sampling?	
a. Simple Random Sampling	
b. Stratified Random Sampling	
c. Systematic Sampling d. Cluster sampling	
u. Cruster sampning	
xii.Personal interviews conducted in shopping malls are known as	CO3
a.Mall interviews	
b. Mall intercept interviews	
c.Brief interviews	

d. None of the given options	
xiii. What criteria should research questions for a research proposal satisfy?	CO5
a. They must be understandable	000
b. They should be suitable for development into a research design, so that relevant	
data may be collected.	
c. There should be enough research literature available on the topic	
d. All of the above	
viv. The first stop in statistical estivity is the	CO4
xiv. The first step in statistical activity is the a. Publication of report	04
b. Processing of data	
c. Analysis of data	
d. Collection of data	
u. Confection of data	
xv. A small scale trial run of a particular component is known as:	CO3
a. Pilot testing	
b. Pre-testing	
c. Lab experiments	
d. Both a & b	
xvi. Which is not a source of existing statistics?	CO3
a. Government	000
b. International agencies	
c. Personal interviews	
d. Private sources	
wii When the experimental regults are significant	CO4
xvii. When the experimental results are significant	CO4
a. We reject the null hypothesis	
b. The results are impressivec. We retain the null hypothesis	
d. We reject the alternative hypothesis	
d. We reject the alternative hypothesis	
xviiiis a list of references cited in the text.	CO4
a. Appendix	
b. Glossary	
c. Literature cited	
d. Bibliography	
viv Is the process of assigning figures or other symbols to ensure so	
xix Is the process of assigning figures or other symbols to answers so that responses can be put into a limited number of categories or classes?	CO4
a. Editing	
•	
b. Coding c. Tabulation	
d. Classification	

	analysis. a. Bivariate b. Multivariate c. Univariate d. Unidimensional		CO4
	SECTION B		
Q 2	(Attempt any Five questions) What is a literature review? As a researcher how you will start literature review? What is the purpose and importance of literature survey in research?	6	CO1
Q 3	 Indicate the type of measurement scale you would use for each of the following characteristics. Why did you choose the scale you did? Develop the appropriate question for each characteristic and the scale chosen. (i) Color of a dishwasher (ii) Age of a TV (iii) Occupation (iv) Brand Loyalty (v) Readership of a newspaper 	6	CO3
Q 4	Suggest and justify suitable sampling technique/ methods for the following situations:a) To study the attitude of general public towards packaged food itemsb) To study the students behavior towards introduction of dress code in college	6	CO1
Q 5	A company manufacturing brand new personal computers would like to identify potential market segment for their brand. Suggest suitable research design to identify market potential with justification. What would be your sampling frame in this situation?	6	CO1
Q 6	What is the observation method? What are the different types of observation methods available to the researcher? Elaborate with suitable examples.	6	СО3

Q7	'Business research is concerned more with proper fact findings, analysis and evaluation. 'Do you agree with this statement? Give reason in support of your answer.	6	C05
	SECTION-C		
Q 8	(Attempt any Five questions) Sridhar from Bangalore, had developed an electric car-VERVE (It is fully automatic,		
Q 0	no clutch, no gears), two door hatch back, easily seating two adults and two children		
	with a small turning radius of just 3.5 meters). It runs on batteries and as compared		
	to other electric vehicles, has an on board charger to facilitate easy charging which		
	can be carried out by plugging into any 15 amp socket at home or work. A full		
	battery charge takes less than seven hours and gives a range of 80 km. In a quick –		
	charge mode (two-and-a-half hours) 80 percent charge is attained which is good		
	enough for 65 km. A full charge consumes just about 9 units of electricity.		
	Somehow the product did not take off the way he expected. He is contemplating		
	about repositioning the car. As he stood looking at the prototype, he knew that there		
	were a couple of questions to which he must find answers before he undertook the		CO1
	repositioning exercise. Who should be the targeted segment -old people, young		
	student just going to college, house wives? What should be the positioning stance?		
	What kind of image would these customers relate to? Was a new name or punch line		
	required? How should the promotions be undertaken? Hyundai had done it with Shah		
	Rukh Khan, should he also consider a celebrity? If yes who?		
	Questions:		
	i.What kind of research study should Sridhar undertake? Define the objectives of his	(4)	
	research.		
	ii. Do the stated objectives have scope for a qualitative research?	(3)	
	iii. Which method would you recommend and why?	(4)	
Q 9	A survey of 200 workers was conducted regarding their education (school graduates or less, college graduates, university graduates) and the level of their job satisfaction	10	CO4

		Low	Medium	High		
	School	20	35	25		
	College	17	33	20		
	University	11	18	21		
Q 10	Test at a 5% level of education. A company is consid new product. Manage advertisement B. T characteristics are set sample of 60 custome of 100 customers v advertisement A is m is used? Given critica	ering two different to ement believed that 'wo test market a lected. A is used in ers who saw A, 18 to who saw B, 22 tri ore effective than ad	elevision advertisement the advertisement A areas with virtually one area and B in o ried the product. In a ied the product. De levertisement B, if a 5	ents for promotion of is more effective th y identical consum ther area. In a rando another random samp oes this indicate th % level of significan	f a an her om ole 10 hat ce	CO4
	1.645.					
0.11	11 students were gi	van a test in husing	ass recearch method	s They were given	2	
Q 11	11 students were giv month's extra class a					
	benefited by the extra	ra class.? Given cri	tical value at 5% le	evel with 10 degree	of 10	CO4

	Students	Marks(1st test)	Marks(2 nd test)					
	1	23	25					
	2	20						
	3	19	22					
	4	21	18					
	5	18	20					
	6	20	22					
	7	18	20					
	8	17	20					
	9	23	23					
	10	16	20					
	11	19	17					
Q 12	 various days of the vover the week. Days: units consumed (in the value) 	week. Find whether the consum Sun Mon Tues number): 14 16 8	electricity) that occurs during the dunits are uniformly distribut Wed Thus Fri Sat 12 11 9 14 5, 6, 7 d.f. are respectively 11.0	10	CO4			
Q13	months. To test this the mean age at w standard deviation of	claim she took a random sam which these children started w	ch children start walking is 12 ple of 18 children and found the valking was 12.9 months with de that the mean age at which s? Use α =0.05.	nat a 10	CO4			

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SECTION A

S. No.		Marks	CO
Q 1	As a researcher under which situation(s) you use the following in research (Max. 30 words)	(2x10)	
	(i) Chi-square test		CO4
	(ii) Two-tailed test		CO4
	(iii) Snowball sampling		CO1
	(iv) Systematic sampling		CO1
	(v) Exploratory research design		CO1
	(vi) Parametric test		CO4
	(vii) Pilot technique		CO1
	(xiii) Regression		
	(ix) Editing		CO4 CO5
	(x) Research Hypothesis		
			CO4
	SECTION B		
<u> </u>	(Attempt any Five questions)		
Q 2	How are research designs classified? What are the significant elements of a research design? Illustrate with examples.	6	CO1
Q 3	'Majority of the researchers make use of primary sources of data and secondary data sources do not really contribute to a scientific enquiry'. Do you agree/disagree with this statement? Explain.	6	CO3
Q 4	What is the observation method? What are the different types of observation methods available to the researcher? Elaborate with suitable examples.	6	CO1
Q 5	What is a questionnaire? Can it be used in all situations? Why /why not? Support	6	CO3

	your answer w	ith suitable exampl	es.					
Q 6	To study the contract taken and a contract significance that		6	CO4				
Q7	When a researc	6	CO4					
		()	SECTION-C Attempt any Five qu					
Q 8	The following		ne results of survey of		useholds in			
	three cities acc that standard o							
	Standard of Living							
	Cities	Below	Average	Above		10	CO4	
	Delhi Mumbai	15 20	120	330 55				
	Kolkata	30	140	180				
Q 9	A company ha director wanted of a new plan of 500 workers at workers, 41% the two groups	10	CO4					
Q 10	Watermelons water of 11 and 9 water and 0.5 kgs returns that the distribution	10	CO4					
Q 11	basic math. Si	ix students are cho	er introductory statis osen at random from vants the class to be	n the class and give	ven a math		CO4	

	test. The six students get scores of 62, 92, 75, 68, 83, and 95. Can the professor have										10				
	90 percent co	onfid	ence	that th	he me	an sc	ore fo	or the	class o	n the t	test wo	ould b	e above		
	70?														
Q 12	Twelve cars	were	equi	pped	with r	adial	tires a	and di	riven o	ver a te	est cou	ırse. T	hen the		
	same 12 cars	(wi	th th	e sam	e driv	ers) v	were of	equip	ped wi	th regu	ılar be	elted ti	res and		
	driven over t	he sa	ame	course	. Afte	er eac	h run	, the o	cars' g	as ecoi	nomy	(in kn	n/l) was		
	measured. Is	there	e evi	dence	that ra	adial	tires p	oroduc	e bette	er fuel	econo	my? (.	Assume	10	
	normality of	data,	and	use α	= .05.))									
							Car								
	Gas	1	2	3	4	5	6	7	8	9	10	11	12		CO4
	Economy														
	Y ₁ (radial)	4.	4.	6.6	7.0	6.7	4.5	5.7	6.0	7.4	4.9	6.1	5.2		
		2	7												
	Y ₂ (belted)	4.	4.	6.2	6.9	6.8	4.4	5.7	5.8	6.9	4.7	6.0	4.9		
		1	9												
Q13	The followin	0	<u> </u>							•			0		
	various days of the week. Find whether the consumed units are uniformly distributed over the week.								tributed						
										10					
	Days: units consum	od (ii	יוומ מ		Sun	Mo 16		lues 8	Wed 12	Thus 11	Fri 9	Sa 14			CO4
		cu (II	ii iiul	nuer).	14	10	,	0	12	11	7	14			
	Given that the values of chi-square significant at 5, 6, 7 d.f. are respectively 11.07, 12.59, 14.07 at the 5% level of significance.														
	12.37, 14.07		70		or sign	mical									