Name: Enrolment No:



UNIVERSITY OF PETROLEUM & ENERGY STUDIES End Semester Examination (Online) – May/June, 2021

Program: BA Economics (Hons.) Subject/Course: Research Methodology

Course Code: DSRM 3002

Semester: IV Max. Marks: 100 Duration: 3 Hours

Section-A

Q.No	Question	Marks	COs
1.	Define Nominal and Ordinal scale of measurement.	5	CO1
2.	Discuss the difference between primary and secondary data along with its example.	5	CO1
3	Discuss the difference between population and sample.	5	CO1
4	Accepting the false null hypothesis is known aserror.	5	CO2
5	All causes non sampling errors except (a) Faulty tools of measurement (b) Inadequate sample (c) Non response (d) Defect in data collection	5	CO3
6	For data 2, 2, 4, 4, 4, 6, 6, 6, 6, 6, 6 what will be the mean, median and mode.	5	CO4
	Section-B	•	
7	What is research report. Discuss the layout of research report.	10	CO1
8	Define any four of the following (a) Measure of Dispersion (b) Hypothesis (c) Correlation (d) Type-I error (e) Non- probability Sampling (f) Research Design	2.5*4=10	CO2
9	The temperature of two cities A and B in a winter season are given below. Temperature of city A (in degree Celsius) 18 20 22 24 26 Temperature of city B (in degree Celsius) 11 14 15 17 18 Find which city is more consistent in temperature changes?	10	CO2

		2 1	1	1			1 .	1 1 .1		1							
	A panel of Judges P and	Q grade	ed seve	n drama	tic perfo	ormance	s by inc	dependently	У								
	awarding marks as follows:	1		2	4	T ~											
	Performance	1	2	3	4	5	6	7									
10	Marks by P	46	42	44	40	43	41	45	10								
	Marks by Q	40	38	36	35	39	37	41	10								
	The eighth performance which Judge Q could not attend, was awarded 37 marks by judge									CO3							
	P. If Judge Q had also been present, how many marks would be expected to have been																
	awarded by him to eighth performance?																
11	A company manufacturing automobile tyres finds that tyre-life is normally distributed																
	with a mean of 40,000 km an																
	in the production process will result in a better product and the company has developed a									CO3							
	new tyre. A sample of 64 new tyres has been selected. The company has found that the									COS							
	mean life of these new tyre		200 km	. Can it	be cond	cluded the	hat the	new tyre i	S								
	significantly better than the o																
	At 5% level of significance the	e tabula	ted valu														
	1			Section-	<u>-C</u>												
				Study													
	Yaseer Ahmed retired as a chief from a 5-star hotel in Delhi and returned to his																
	hometown Ramveerpur (popu																
	difficult to settle back into the community. He realized that he needed a vocation to keep																
	him occupied. He was still clue less about what to do, when his friend Samar Dewan								n								
	visited him. Yaseer explains his dilemma and asked for advice.																
	Samar pondered over the problem, and suggested that considering Yaseer's expertise in																
	exotic cuisine, he should think about setting up a restaurant serving non-vegetarian food.																
	The enterprise would be perfect, as Ramveerpur hardly had any restaurant serving good																
	non- vegetarian cuisine. Yaseer liked the idea very much. But before putting the idea into																
	practice, he felt that it was important to have a rough estimate of the non-vegetarian																
	population who went out for meals in a restaurant at least once in a typical week.																
	Samar recalled a hotel industry report, according to which Ramveerpur's population																
12	comprise 15% Muslims, 20																
	generally, Muslim's were non-vegetarian, whereas 95% Sikhs were non-vegetarian.																
	Further, the result of the report of hotel industry had indicated that more than 2 % of the																
	population of the town ate out at least once a week.																
	The data definitely indicated a sound and profitable opportunity. However, Yaseer felt																
	that before setting up a restau																
	conducted. He wanted to c	arry ou	t a sur	vey of t	the hous	eholds	to unde	rstand thei	r								
	preference for various cuising	es. All	the hou	iseholds	were as	signed a	a serial i	number. H	e								
	decided to survey 1000 house	eholds.	His pla	n was to	conduct	every 1	00th hou	sehold in	a								
	particular locality and ask for	their ea	ting pre	ferences	•												
	(a) What type of Samplin	-	n is bei	ng used i	in this ca	ise, whe	ther it co	ould lead to	o 10	CO^4							
	any sampling frame en									CO4							
	(b) Suggest an alternativ	_	_	-		possib	le samp	le size tha	t 10								
1	should be taken out from	om each	comm	unity and	Lwhy?				ı	1							