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Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2018

Program: BAEE (H) Specialization in Energy Economics

Subject (Course): Applied Research Methodology

Course Code: DSRM 2002

No. of page/s: 02 Note: Do as directed

Semester – III Max. Marks: 100 Duration: 03 Hrs.

SECTION A S. No. Marks CO Q1 Choose the correct answer: **CO1** 10 1. A question which requires a solution is a) Observation b) Problem c) Data d) Experiment 2. The first step in formulating a problem is a) Statement of the problem b) Gathering of Data d) Survey c) Measurement 3. Second step in problem formulation is a) Statement of the problem b) Understanding the nature of the problem d) Discussions c) Survey 4. Third step in problem formulation is a) Statement of the problem b) Understanding the nature of the problem c) Survey the available literature d) Discussion 5. Fourth step in problem formulation is a) Develop ideas through discussion b) Survey c) Statement of problem d) Enactment 6. Last step in problem formulation is a) Survey b) Discussion c) Literature survey d) Re Phrasing the Research problem 7. When a hypothesis is stated negatively it is called a) Relational Hypothesis b) Situational Hypothesis c) Null Hypothesis d) Casual Hypothesis 8. Hypothesis which explain relationship between two variables is a) Causal b) Relational c) Descriptive d) Tentative 9. The original source from which researcher collects information is a) Primary Source b) Secondary Source c) Both primary and Secondary d) None of these

	10. Source of Data collected and compiled by others is called		
	a) Primary b) Secondary		
	c) Primary and Secondary d) None of the above		
	SECTION B		
Q2	Differentiate between:	20	CO2
	a. Research Methodology and research methods		
	b. Primary data and secondary data		
	c. Random sampling and multistage sampling		
	d. Coefficient of determination and Coefficient of correlation		
	e. Null hypothesis and alternate hypothesis		
	SECTION-C		
Q3	Attempt any three Questions as per your choice:		
	I. Review of literature is boring as well rewarding. Do you agree/disagree,		
	comment?	10	CO3
	II. Explain the process of designing questionnaire for primary survey data		
	collection.	10	CO3
	III. A researcher used the income-consumption data and the following equation	n	
	was estimated:		
	Consumption = 1,028.10 + 0.55 income + 0.25 wealth	10	CO4
	$N = 4,137 \qquad R^2 = 0.0858$		
	Interpret the estimated results and formulate null and alternate hypotheses.	s.	
	IV. Suppose that 100 tires made by a certain manufacturer lasted on the average	ge	
	21,819 miles with a standard deviation of 1,295 miles. Formulate the null	and 10	CO4
	alternate hypothesis and outline the steps of testing hypotheses.		
	SECTION-D		
Q4	Attempt all from the following:		CO5
	I. Write a short review of the book that you have reviewed considering	the	1
	different steps of review process.		
	II. What according to you is the major contribution of the study that you h	iave	
	reviewed to the existing literature?		