

**Enrolment No:** 



## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

**End Semester Examination, December 2019** 

Course: Healthcare Research Method and Professional Issues Semester: VII

Program: B.Tech CSE spl in Health Care Informatics Time : 03 hrs.

Course Code: CSEG 445 Max. Marks: 100

## **Instructions:**

	SECTION A				
S. No.		Marks	CO		
Q 1	Illustrate the importance of research in Health Care. Identify the challenges encounter while working with heuristic data.	4	CO1		
Q 2	Research in healthcare industry plays with multiple dynamic variables. Differentiate between traditional clinical research and outcome-based research carried out to understand the effect of air bone disease.	4 CO			
Q 3	Define true and false positive rate during the correlation of dataset.	on of dataset. 4 CO2			
Q 4	State the rule of thumb for identifying sample size of the dataset.	4	CO2		
Q 5	Document present the exact summary of the research carried out. Recall deferent erroneous premise while writing case report.	4	CO5		
	SECTION B				
Q 6	Research in Health care industry is public in nature hence different bodies can undertake same research at the same time. Elucidate different ethnic issue encounter while carrying out simultaneous research.	10	CO2		
Q 7	Variable plays a very important role while carried out document driven research. Identify specific variable and their relevance while caring out research to identify the side effect of a medicine on patients.	10	CO3		
Q 8	Perform Friedman Repeated measures ANOVA for the following statement: You would like to see if the brand of incentive spirometer has any affect on patient compliance. You select a group of six post-operative surgical patients and have them try each of three different incentive spirometers. The patients rank their opinion numerically (0 = don't like, 1 = neutral, 2 = like). The data are entered into a table like this:  Spirometer A 0 1 0 0 1 1  Spirometer B 1 1 2 1 0 1  Spirometer C 2 1 2 2 2 2  Or  Perform Two Way Measure ANOVA for the following statement	10	CO4		

	You have a assessment of these ass both time a not change procedure. values after 2 Hours								
	1.23	1.81	1.81						
	1.38	1.38	1.77						
	1.01 0.96	1.46 1.41	1.56 1.60						
	1.31	1.41 1.44	1.00						
	1.12	1.44	1.77						
	1.12	1.48	1.72						
	1.09	1.46 1.46	1.72						
	1.19	1.40	1.63						
	1.17	1.23	1.80						
0.0	T11	• ,							
Q 9	Illustrate the importance of correlation in any research. Elucidate kappa and phi correlation with respect to the allergies.				CO1				
SECTION-C									
Q 10	Design a scientific method based planning to map the outbreak of dengue in Dehradun.				CO5				
Q 11	Paraphrase								
	a) CQ	10+10	CO3,C O4						