Name: Enrolment No:				
		DLEUM AND ENERGY STUDIES		
Course		earch Semester: 1 st		
Program	Program:M.Sc. Clinical ResearchTime 03 hrs.Course Code:HSCC7006Max. Marks:		Time 03 hrs. Max. Marks: 100	
Course				
Instruc				
	ON A Question will carry 5 Marks uction: Complete the statement / Select the	correct answer(s)		
S. No. Q 1	Statement of question (Attempt all question	s) 30	CO	
	Which of the following is a possible value for f f f f f f f f	5	CO1	
Q 2	 Mark the following statements True (T) or H The standard error is a statistical measure of a) a measure of whether the sample wa b) the clustering of scores at each end of 	s randomly selected or not	CO3	

	c) the extent to which a sample mean is likely to differ from the population		
	d) the degree to which a sample has been accurately stratified		
	e) the normal distribution of scores around a sample mean		
Q 3	a) The value of the coefficient of correlation lies between	5	
	b) The non-parametric equivalent of an unpaired samples t-test is		
	c) The variables whose calculation is done according to the height, length, and		
	weight are categorised asvariables.		
	d) Graphical and numerical methods are specialized process utilized		CO2
	instatistics.		
	e) When the population consists of heterogeneity,sampling		
	procedure is preferred		
Q 4	a) The standard deviation is always than the mean deviation.	5	
	b) The variance of a constant is		
	c) When mean, median, and mode are identical, the distribution is		CO4
	d) 2nd Quartile = 5th Decile = 50th Percentile =		
	e) If a distribution has two modes then this distribution is called		
Q 5	A) Statistics describes a numeric set of data by its a), b) and	5	
	c)		~ ~ ~
	B) An individual value that falls outside the overall pattern is called an d)		CO2
	C) The standard deviation of data divided by it's mean is called e)		
Q 6	If a positively skewed distribution has a median of 50, which of the following statement(s) is/are true and WHY?	5	
	i) Mean is greater than 50		
	ii) Mean is less than 50		
	iii) Mode is less than 50		
	iv) Mada is greater than 50		CO1
	iv) Mode is greater than 50v) Both A and C		
	SECTION B		I
	question will carry 10 marks. Answer all 5 questions.		
2. Instr	uction: Write short / brief notes		

	Statement of question	50	CO
Q 1	(a) Distinguish between grouped and ungrouped frequency distributions. (b) Mention any two limitations on statistics.	10	CO1
Q 2	(a) Distinguish between nominal and ratio scale. (b) What is the difference between discrete and continuous random variables with example.	10	CO2
Q 3	(a) What is correlation and regression with example? (b) Calculate the mean, mode and median for the following data.Class130-134135-139140-144145-149150-154155-159160-164Frequency515282417101	10	CO3
Q 4	(a) Distinguish between cluster sampling and systematic sampling. (b) Explain relative measures of dispersion.	10	CO4
Q 5	(a) Define kurtosis of a data and briefly explain the various measures of kurtosis. (b) Write two names of statistical softwares that are used for measures of kurtosis.	10	CO1
	SECTION C a question will carry 20 marks. ruction: Write Long Answer.		
2. 11150	Statement of question	20	СО
Q 1	 a) Explain the principal methods for calculating the coefficient of correlation. b) Find the Quartiles of the following age:- 23, 13, 37, 16, 26, 35, 26, 35. OR a) What are the merits and demerits of Stratified sampling? b) What does rejecting the null hypothesis for an ANOVA tell us? 	20	CO4