Name:				
Enrolmo	ent No:			
	LINIVERSITY OF PETRO	DLEUM AND ENERGY STU	DIFS	
		Examination, December 2020	DILD	
Program	mme Name: B.Tech (GIE)		Semester :	V
Course			-	: 03 hrs
	Code : PEGS 3014	Γ	Max. Marks:	100
	page(s) : 2			
Instruc	tions: Answer each question in separate pag	ION-A (6 x 5=30)		
		npt all questions		
Sl. No.	Answer in or	ne or two lines	Marks	CO
Q1	Why variance of a sample population cannot l	be negative?	5	CO1
Q2	Describe central limit theorem.		5	C01
Q3	For standardized normal distribution what is t	he value of mean?	5	C01
Q4	What is factor in an experimental unit?		5	CO3
Q5	For comparing two population variances what	statistical test we perform?	5	CO2
Q6	When t-distribution approximates a normal di	stribution?	5	CO2
	SECT	ION-B (5 x 10=50)		001
		npt all questions.		
	Answ	ver in few lines		
Q7	What is nugget, span and sill in a semivariogr	am model?	10	CO4
Q8	What is the difference between point estimato example.	r and interval estimator? Explain with	10	CO3
Q9	What is Type I and Type II error?		10	CO2
Q10	What is kriging in special statistics and how it	is practiced?	10	CO5
Q11	Over a long period of time it has been obs on a single trial with probability equal to (target. a. What is the probability that he will	0.8. Suppose he fires four shots at the heat the target exactly twice?	et 10	CO1
	b. What is the probability that he will	I heat the target at least once? ION-C (20 x 1=20)		
		Attempt all		
Q12	Labels on 1-gallon cans of paint usually ir can be covered in one coat. Most brands o will be covered between 250 and 500 squa surface to be painted. One manufacturer h cover 400 square foot of area. To test this	f paint indicate that, in one coat, a gallon are feet, depending on the texture of the owever claims that a gallon of its paint w	20	CO2

cans of white paint were used to paint ten identical areas using the same kind of			
equipment. The actual areas (in square feet) covered by these 10 gallons of paint are			
given here:			
310 311 412 368 447			
376 303 410 365 350			
Do the data present sufficient evidence to indicate that the average coverage differs			
from 400 square feet? Present your evidence with 90% confidence level.			
P value of the critical test statistics is 1.383 for 90% confidence level.			