程序作indexin to 2025编程辅导

Exam Release Date: April 17, 2023 – Time: 9:00 am Due Date: April 20, 2023 – Time: 9:00 am

Last name:	First name:
Student No.:	
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Note: Please cle	the above spaces.

Instructions

1. Either use the thouse to artwer out the same on a separate sheet of paper. If you answer on a separate sheet of paper, your answers must be ordered as follows: Question 1, Question 2, Question 3, Question 4, Question 5.

Your answers must be distocular this order, example if your first page contains the answer to Question 2 instead of Question 1 you will receive no marks for your answers.

- 2. Your exam must be parameted training to Council as a support (handwritten or typed), no later than April 20 at 9:00 am.
- 3. Submit your exam on myCourses as if you are submitting an assignment.
- 4. You will be allowed multiple submissions until the deadline. We will grade the latest submission before the deadline.
- 5. Make sure that the green and the problem with your submission has been received. If you encounter a problem with your submission you must let me know immediately. It is too late to inform me once the deadline has passed.
- 6. The exam has been prepared in such a way that if undertaken under normal conditions, it can be completed in 3 hours. Due to potential issues with internet connectivity and other unforeseen technical issues, it is strongly recommended that you plan to submit your exam script well in advance of the deadline.
- 7. You are permitted to use any resource you want. However, you are not allowed to collaborate with other students in the course.

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Question 1. [20 points]

Steel is normalize by heating about the concernment of the same of o cooling. This process increases the strength of the steel, refines the grain, and homogenizes the structure. An experiment is performed to determine the effect of temperature and heat ■ the strength of normalized steel. Two temperatures experiment is performed by heating the oven to a and three time d inserting three specimens. After 10 minutes one randomly sele utes the second specimen is removed, and after 30 specimen is reoved. Then the temperature is changed to the other minutes the fi Four shifts are required to collect the data, which level and the La and draw conclusions, assuming both factors are are shown belo fixed. Attach R-output and R-codes.

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Question 2. [20 Points] An engineer is interested in the effects of cutting speed (A), tool geometry (B), and cutting angle (C) on the life (in life(s) of a remain tool process) we revels of each factor are chosen, and three replicates of a 2³ factorial design are run. The results are given in the table below.

學的機構也	L tment		Replicates	
	inations	Ι	II	III
	(1)	22	31	25
Tutor CS	a	32	43	29
IND CARLE	4T b	35	34	50
	ab	55	47	46
<u> </u>	c	44	45	38
+ - +	ac	40	37	36
XX / + 1	bc	60	50	54
w e una	t:alCStU	LBO	rcs ₁	47

- a. Write down Sgieginment preditog ect fe Exame Help parameters
- b. Estimate the factor effects. Which effects appear to be large?
- c. Based on the results from parts (a) and (b) write down the reduced model and estimate its parameters.

Note: Attach 16-0 tpt and 4-9 ds 89476

Solution Q2. 程序代写代做 CS编程辅导



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- Question 3. a. [12 Points] Three different washing solutions are being compared to study their effectiveness in relarding base of a grown in five grown halk the aircras. The analysis is done in a laboratory, and only three trials can be run on any day. Because days could represent a potential source of variability, the experimenter decides to block design. Observations are taken for four days, and the control of the data from this experiment (use $\alpha = 0.05$). Analyze the data from this experiment (use
 - Days

 1 2 3 4

 13 22 18 39

 16 24 17 44

 3 5 4 1 22

b. [8 Points] Show that for a (t, b, r, k, λ) BIBD,

Assignment Project Exam Help Where, t is the number of treatments, b is the number of blocks, r is the replication, k is the block size and λ is the concurrence of the pair (i,j) for all i and j. Email: tutorcs@163.com

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Solution Q3.

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a. [14 Points] Seven different hardwood concentrations are being studied to Question 4. determine their effect on the trength of the paper policed week, the pilot plant can only produce three runs each day. As days may differ, the analyst uses the balanced incomplete block design that follows. Analyze this experiment (use $\alpha = 0.05$) and R-codes.

	يى			-			
	36			Days			
Cor H	3. •	2	3	4	5	6	7
Tutor CS	17				120		117
<u> </u>	HΙ	120				119	
	М.,	137	114				134
8	141		129	149			
10		145		150	143		
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- b. [3 Points] Give the incidence matrix for the design given in part (a) Help c. [3 Points] Give the gnouncement project Example (a).

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Solution Q4. 程序代写代做 CS编程辅导



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Question 5. a. [8 Points] Show that for a 写, r, k, \(\lambda\), BIBD CS编程辅导

and



$$\lambda(t-1) > k^2 - k$$

atments, b is the number of blocks, r is the e and λ is the concurrence of the pair (i, j) for all i

- b. [6 Points] f design that would be most appropriate for each of the follow
 - (i) investigating a new drug which purports(claims) to reduce high blood pressure.
 - (ii) comparing four dials: pcstutotics gives the greatest weight gain in the first six weeks of life.
 - (iii) seeing whether either of the two proposed new drugs to help people give up smoking saying thement Project Exam Help
- c. [3 Points] You want to compare four treatments in blocks of two runs. Find a Balanced Incomplete Block Design for this experiment with six blocks. (You just have to give all the parameters of this \$160) 163.00m
- d. [3 Points] Verify that a BIBD with the parameters a=8, r=8, k=4, and b=16 does not exist.

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Bolution Q5. 程序代写代做 CS编程辅导



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Extra page

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