Family Name

First Name

程序代写代做 CS编程辅

Student Number

Venue

Seat Number



No electronic/comn

No exam materials may be removed from the exam room.

Wenther atics and statistics

Assignment Project Exam Help

STAT317-17S2 (C) Time Series Methods

STAT456-17S2 (C) Time Series and Stochastic Processes

ECON323-17S2 (C) Time Series Methods QQ: 749389476

Examination Duration: 12

Exam Conditions: https://tutorcs.com

Restricted Book exam: Approved materials only.

Calculators with a 'UC' sticker approved.

Materials Permitted in the Exam Venue:

Restricted Book exam materials.

One A4 double-sided, hand-written, sheet of notes.

Materials to be Supplied to Students:

1 x Standard 16-page UC answer book

Instructions to Students:

Answer all SIX questions

Use black or blue ink only.

Show all working.

Write your answers in the answer booklet provided.

程序代写代做 CS编程辅导



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QQ: 749389476

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1. [9 marks] Give the definitions of the following concepts. 程辅导

- (a) Weak white noise
- (b) Random
- (c) Weakly s
- 2. [9 marks] Ar the latest and the cesses stationary or not? Give reasons for your answer.
 - (a) Random
 - (b) The AR(1) process $X_t = \frac{5}{3}X_{t-1} + W_t$
 - (c) Log-exchange rate of NZD and USD true to the control of the co



- 3. [9 marks] Assume you observe a time series X_t and there seems to be a trend in the series that looks like a quadratic function.
 - (a) Write down a regression model for the quadratic trend.
 - (b) Extend the regression model in a way that it can account for seasonality that repeats after four observations. Point out how all four seasonal components can be estimated with your model. Explain in one or two sentences what might go wrong if such a model is written down in a naive way.

- 4. [8 marks] Please explain the relationship between the Wold's decomposition and the the ARMA models.
- 5. [**8 marks**] Co **1 Trans** ode

$$X_{t-1} + 0.4X_{t-2} + \epsilon_t$$

where ϵ_t is a v

with mean 0 and variance 4.

- (a) Give the given the actual value of the parameters.
- (b) Give the numeric value of the autocorrelation functions, $\rho(0)$, $\rho(1)$ and $\rho(2)$.
- 6. [8 marks] Showh and AR(1) can Still of a Snfinite MA and and how an MA(1) can be seen as an infinite AR.

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End of Examination https://tutorcs.com