Lecture 78: Autocorrelation (Contd.) Lecture 79: Autocorrelation (Contd.) Lecture 80: Autocorrelation (Contd.) Lecture 81: Autocorrelation (Contd.) Quiz: Week 9:Assignment 9 Feedback for Week 9 Week 10 Week 11

Week 12

Course Material

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Assignment Solution

Week 9:Assignment 9 The due date for submitting this assignment has passed. Due on 2021-09-29, 23:59 IST. As per our records you have not submitted this assignment. 1) 1 point If εt is the error term in period t, which of the following statements best defines Secondorder autocorrelated errors? ε_t is linear function of ε_{t-1} ε_t is linear function of ε_{t-2} ϵ_t is linear function of ϵ_{t-1} and ϵ_{t-2} d) ϵ_t is linear function of square of ϵ_{t-1} O a ○ b Ос \bigcirc d No, the answer is incorrect. Score: 0 Accepted Answers: 2) 1 point If autocorrelation is present in a regression model, then the regression coefficients estimated will not be Unbiased Consistent Efficient All of the above ○ a 0 c \bigcirc d No, the answer is incorrect. Score: 0 Accepted Answers: 3) 1 point The Durbin Watson statistics of 2 corresponds to a) Perfect positive autocorrelation Perfect negative autocorrelation No autocorrelation High autocorrelation O a ○ b 0 c No, the answer is incorrect. Score: 0 Accepted Answers: 4) 1 point Which of the following statements are true regarding Breush-Godfrey test? a. It is used to test the null hypothesis of no autocorrelation Lags of dependent variable should not be present as regressor The test is valid even when the lagged value of the dependent variable appears as a regressor It is a Chi-square test a □ b _ c _ d No, the answer is incorrect. Score: 0 Accepted Answers: С d 1 point The range of Durbin Watson statistics is a) 0 to 1 b) -1 to +1 c) 0 to 4 d) -4 to +4 O a ○ b Ос \bigcirc d No, the answer is incorrect. Score: 0 Accepted Answers: 1 point 6) Suppose that the Durbin Watson test is applied to a regression containing two explanatory variables plus a constant (k=3) with 50 data points. The test statistic takes a value of 1.55. What is the appropriate conclusion? a) Residuals appear to be positively autocorrelated b) Residuals appear to be negatively autocorrelated c) Residuals appear not to be autocorrelated d) The test result is inconclusive O a ○ b 0 c \bigcirc d No, the answer is incorrect. Score: 0 Accepted Answers: 1 point If a Durbin Watson statistic takes a value close to zero, what will be the value of the first order autocorrelation coefficient? a) Close to zero b) Close to plus one c) Close to minus one d) Close to either minus one or plus one O a b 0 c \bigcirc d No, the answer is incorrect. Score: 0 Accepted Answers: 1 point Negative residual autocorrelation is indicated by which one of the following? A cyclical pattern in the residuals a) An alternating pattern in the residuals b) A complete randomness in the residuals c) Residuals that are all close to zero

O a \bigcirc b 0 c O d No, the answer is incorrect. Score: 0 Accepted Answers: Which of the following are tests for detecting Autocorrelation? (a) Durbin Watson test (b) Correlogram (ACF plot) (c) Breush Pagan Godfrey test (d) Goldfeld quandt test a □ b С _ d

10) Which of the following could be used as a test for autocorrelation up to third order? The Durbin Watson test a) White's test b) c) The RESET test The Breusch-Godfrey test d) O a ○ b Ос \bigcirc d No, the answer is incorrect. Score: 0 Accepted Answers:

No, the answer is incorrect.

Accepted Answers:

Score: 0

b

1 point

1 point