Quiz 05

Due Jan 17, 2019 at 23:59

Points 10

Questions 5

Available Jan 15, 2019 at 11:00 - Jan 17, 2019 at 23:59 3 days

Time Limit 30 Minutes

Instructions

Quiz 05 covers the material in lecture 13 (pages 85 - 89 of the Course Notes)

This quiz is no longer available as the course has been concluded.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	18 minutes	8 out of 10

Score for this quiz: **8** out of 10 Submitted Jan 17, 2019 at 13:15 This attempt took 18 minutes.

	Question 1 2 / 2	pts	
	If we had quarterly data with our first observation recorded for Quarter 3, the first seasonal estimate listed in R would be:		
	O Quarter 2		
	O Quarter 4		
	O Quarter 1		
orrect!	Quarter 3		

Question 2 0 / 2 pts

What is the main advantage of using the stl decomposition function in R rather than using moving averages?

	We do not lose seasonally adjusted observations at the beginning of our series
nswered	The stl decomposition will always produce a smaller residual standard errror
t Answer	We do not lose seasonally adjusted observations at the end of our series
L	316
	Question 3 2 / 2 pts
	In a set of Technical Notes on a seasonally adjusted model we begin by
	O discussing whether we need to transform the seasonally adjusted data
	discussing whether the errors have similar variation for each of the seasons
rrect!	discussing the seasonal estimates and comment on the plot of the deseasonalised series
	odiscussing the initial model fit
	Question 4 2 / 2 pts
	In order to model a seasonal series we had to transform our data before deseasonalising. When we calculate predictions, we
	only calculate deseasonalised predictions if we have transformed the data
	use the model to calculate a prediction, back-transform and then add back the seasonal component

The stl decomposition will always produce better predictions

orrect!	use the model to calculate a prediction, add back the seasonal component and then back-transform
	need to multiply the deseasonalised prediction by the appropriate seasonal estimate before back-transforming

Question 5	2 / 2 pts
If we have monthly data and fit an additive seasonally adjusted mo	odel
the seasonal estimates will sum to 0	
the seasonal estimates will sum to a negative number	
any of the other options are possible	
the seasonal estimates will sum to a positive number	

Correct!

Quiz Score: 8 out of 10