Quiz 03

Due Jan 14, 2019 at 23:59

Points 10

Questions 10

Available Jan 11, 2019 at 11:00 - Jan 14, 2019 at 23:59 4 days

Time Limit 30 Minutes

Instructions

Quiz 03 covers the material in lectures 7 - 9 (pages 47 - 59 of the Course Notes)

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

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	13 minutes	10 out of 10

Score for this quiz: **10** out of 10 Submitted Jan 14, 2019 at 13:16 This attempt took 13 minutes.

	Question 1	1 / 1 pts
	What is the most common use of moving averages?	
	To determine whether there is any seasonal pattern in the series	
	To estimate each seasonal component in the series	
	To determine if any given observation is above or below the overall tree.	end
orrect!	To create a seasonally adjusted series to analyse	

Question 2 1 / 1 pts

If we build a model of a transformed and deseasonalised series, our predictions ...

require that we add back the seasonal com the original scale	ponent before back-transforming to
cannot contain any seasonal componer	nt
require that we add back the seasonal com the original scale	nponent after back-transforming to
Question 3	1 / 1 pt
The advantage of using the seasonal tren deseasonalised series is	d lowess method to create a
we do not need to average adjacent desea have to do with moving averages	sonalised values as we usually
have to do with moving averages	
have to do with moving averages we do not lose any observations from o	ur deseasonalised series
have to do with moving averages we do not lose any observations from o All other options are correct	ur deseasonalised series
have to do with moving averages we do not lose any observations from o All other options are correct the trend is often smoother than when u	ur deseasonalised series using moving averages 1 / 1 pt ill the moving average and
have to do with moving averages we do not lose any observations from o All other options are correct the trend is often smoother than when used to the description of the trend is often smoother than when used to the description of the trend is often smoother than when used to the description of the trend is often smoother than when used to the description of the trend is often smoother than when used to the description of the trend is often smoother than when used to the trend is often smoother than when used to the description of the trend is often smoother than when used to the trend is often smoother than when used to the trend is often smoother than when used to the trend is often smoother than when used to the trend is often smoother than when used to the trend is often smoother than when used to the trend is often smoother than when used to the trend is often smoother than when used to the trend is often smoother than when used to the trend is often smoother than when used to the trend is often smoother than when used to the trend is often smoother than when used to the trend is often smoother than when used to the trend is often smoother than when used to the trend is often smoother than the	ur deseasonalised series using moving averages 1 / 1 pt ill the moving average and a seasonal component?

Only in the seasonal trend lowess procedure

ocan only be seasonally adjusted predictions

O No			

Why is exponential smoothing a better method of smoothing or filtering a time series? It uses all the information in the series Most weight is on the most recent information we have We do not lose any observations as with moving averages All other options are correct

Correct!

Correct!

Correct!

Questio	n 6	1 / 1 pts
Exponentia	al smoothing	
is th	ne best smoothing method for any time series	
o can	be used on any time series	
• is no	ot appropriate for series that have trends or cycles	
o can	only be used when we have a seasonal component in the series	

Question 7	1 / 1 pts
Differencing a Time Series is a method of	
•	

creating a stationary series from a non-stationary series l data	before we model the
an only be used when we have monthly data	
 modelling a stationary Time Series 	
an only be used when we have quarterly data	
Question 8	1 / 1 pts
Forecasting Time Series data	
can be done on a model with a year of data removed so compared to actual values	predictions can be
requires that we have at least 50 degrees of freedom	
All other options are correct	
should report the forecasts to the same level of accuracy values	as the original data
Question 9	1 / 1 pts
What additional components are present in a non-state	ionary Time Series?
○ Trend	
All of the other options or any combination of them	
○ Seasonal	
○ Cycle	

Correct!

Correct!

	Question 10	1 / 1 pts
	What components are usually present in any Time Series, stationary stationary?	/ or non-
	autocorrelation and cycle	
	trend and autocorrelation	
orrect!	random and autocorrelation	
	 seasonal and random 	

Quiz Score: 10 out of 10