

## Section B (40%)

This section has two main questions with several parts. The first question is worth 25 marks and the second question is worth 15 marks. The worth of part questions within each main question is indicated. Answer all questions.

### **QUESTION 1 (25 marks)**

The pages immediately following this question consist of several spreadsheets and graphs of incomplete work undertaken by an employee for a large chain retailer of household goods. The employee was asked to forecast, as a first step, the total value of household good retail sales for Australia for the 4 quarters of 2017. Unfortunately, the employee went on vacation with the company's chief accountant to the Bahamas and neither has been heard from for over a month. All that was in the employee's desk was a USB disk which contained only the spreadsheets and charts you see on the pages directly following this introduction.

There are 5 spreadsheets; the first being a chart of the household goods retail sales (\$m) for Australia for the period March 01 to Dec-16 while the next 4 spreadsheets have been labelled Models 1- 4 respectively. No other explanation or detail was discovered on the disk. Your consultancy firm (**Kanye & Kardashian Konsultants**) has been hired to help explain the mystery spreadsheets and finish the forecasting task. Your supervisor, **Kon Kardashian**, has assigned you the task.

Kon Kardashian has examined the spreadsheets and has left the following advice and instructions;

- (i) It appears the **MAE** and **MSE** in each spreadsheet refer to the **Mean Absolute Error** and **Mean Squared Error** and is not necessarily directly related to the column in which it appears.
- (ii) Although the household goods retail data for Mar-01 to Dec-16 appears on the initial Line chart, for the modelling, in general, only the period Mar-11 to Dec-16 has been used. For future modelling, it would be best to include at least 10 years of data on the time series.
- (iii) Examine the Line charts and spreadsheets and provide responses to the following questions

### **Questions**

# May 2013 Past Questions And Suggested Solutions

**Sebastian Brünink**



**May 2013 Past Questions And Suggested Solutions:**

## Whispering the Secrets of Language: An Emotional Journey through **May 2013 Past Questions And Suggested Solutions**

In a digitally-driven earth wherever monitors reign great and instant communication drowns out the subtleties of language, the profound strategies and mental subtleties hidden within words usually get unheard. However, situated within the pages of **May 2013 Past Questions And Suggested Solutions** a charming literary value blinking with raw emotions, lies a fantastic journey waiting to be undertaken. Written by an experienced wordsmith, that enchanting opus invites readers on an introspective trip, gently unraveling the veiled truths and profound affect resonating within the cloth of each and every word. Within the psychological depths of the poignant review, we shall embark upon a honest exploration of the book is key subjects, dissect its fascinating publishing style, and fail to the powerful resonance it evokes heavy within the recesses of readers hearts.

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 find the zeroes  $x^2 - 5x + 6 = 0$  solve for  $y$   $y^2 - 3y + 2 = 5$  find the roots  $x^2 - x + 30 = 6$  find the zeros  $5w^2 - 23w + 7$

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