

**Complete Team Analytical Assignment #1 Total Marks: 50**  
**For Students with the 2<sup>nd</sup> Edition**

**You are required to do the questions noted below. Please note the letters specified for each question.**

Chapter 2,

Questions

2.7, Total 2 marks

2.10 Total 4 marks,

a) 2 marks, b) 2 marks

Chapter 7

Questions

7.3 Total 8 marks,

a) 3 marks b) 3 marks c & d) 1 mark each

7.5 Total 9 marks,

a, b, c,) 2 marks each and e) 3 marks

Chapter 11

Questions

11.6 Total 9 marks

a & b) 2 marks each e) 5 marks

11.7 Total 3 marks

c) 3 marks each

**Forecasting question:** (not in chapter 11) Total 3 marks. a) 1 marks, b) 1 mark, c) 1 marks.

Historical demand for a product is:

	DEMAND
January	12
February	11
March	15
April	12
May	16
June	15

a) Using a weighted moving average with weights of 0.60, 0.30, and 0.10, find the July forecast.

b) Using a simple three-month moving average, find the July forecast.

c) Using single exponential smoothing with  $\alpha = 0.2$  and a June forecast = 13, find the July forecast. Make whatever assumptions you wish.

Chapter 13

Question 13.6 Total 8 marks

a) 2 marks b) 4 marks d) 2 marks

Question 13.8 With Hints: Total 7 marks

c) Calculate the pipeline inventory or expected on-order inventory. 3 marks.

d) Evaluate expected on-hand inventory 2 marks.

e) Using Exhibit 13.5. 2 marks.