**Quiz – MGT 300- April 2020**

Q1: The following data represents the Net Profit in 10,000 AED for Dubai Auto Company from year 2015 to 2019. Forecast year 2020 using the adjusted exponential method, assuming that

F1 = A1-100 & T1 =5, and α = 0.2 & β = 0.4. Calculate your forecasting error.

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| --- | --- | --- | --- | --- | --- |
| 2015 | 2016 | 2017 | 2017 | 2018 | 2019 |
| 500 | 450 | 600 | 750 | 700 | 650 |

Q2: The following data represents the records for electrical contractors during the last 10 weeks that indicate the sold number of units for one of their products. Forecast the demand for the coming two weeks by using

1. Weighted three moving average (weights are 8,4,2).
2. Exponential smoothing with α = 0.6 (F1 = 90% of A1)
3. Calculate the forecasting error for the two methods.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| W1 | W2 | W3 | W4 | W5 | W6 | W7 | W8 | W9 | W10 |
| 50 | 45 | 60 | 75 | 70 | 60 | 65 | 70 | 50 | 55 |