

Name Surname:

Number:

Department:

Ankara Yıldırım Beyazıt University

Business School, BUS 202- Statistics for Business II, Final Exam Questions

Question 1: The data y has been observed for various values of x , as follows:

| | | | | | | | | | |
|-----|-----|-----|------|------|------|------|------|------|------|
| y | 240 | 181 | 193 | 155 | 172 | 110 | 113 | 75 | 94 |
| x | 1.6 | 9.4 | 15.5 | 20.0 | 22.0 | 35.5 | 43.0 | 40.5 | 33.0 |

a) Fit the simple linear regression model.

b) Find R^2 .

c) Carry out a test for the null hypothesis $H_0: \beta_1 = 0$

d) Fill the following ANOVA Table.

| ANOVA TABLE | | | | |
|-------------|----|----|----|---|
| Source | df | SS | MS | F |
| Regression | | | | |
| Error | | | | |
| Total | | | | |

Question 2: Please write 2 different **questions** and **their answers** about Confidence Intervals.

Question 3: Please give a brief explanation how you use statistics in your studied field.