**STK 320**

**Assignment 1: Linear Regression Diagnostics**

Name:

Student number:

Submission: Before 19 August 2016, 09:30

Answer Sheet

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Question 1 (21)** | | | | | | |
| a |  | Intercept | X1 | X2 | X3 | Model |
| Regression parameters |  |  |  |  |  |
| Standard errors |  |  |  |  |  |
| t-value |  |  |  |  |  |
| F value |  |  |  |  |  |
| P value |  |  |  |  |  |
|  |  | | | |  |
|  |  |  |  |  |  |
| b |  | X1 | X2 | X3 |  |  |
| X1 |  |  |  |  |  |
| X2 |  |  |  |  |  |
| X3 |  |  |  |  |  |
| c |  | X1 | X2 | X3 |  |  |
|  |  |  |  |  |  |
| d |  | | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Question 2 (16)** | | | |
| **a** |  | | |
| **b i** |  | | |
| **b ii** |  | | |
| **c** | c = 50 | c = 100 | c = 150 |
| test statistic |  |  |  |
| F critical value |  |  |  |
| P value |  |  |  |
| Reject H0? |  |  |  |

|  |  |
| --- | --- |
| **Question 3 (8)** | |
| **a** |  |
| **b** |  |
| **c** |  |
| **d** |  |
| **e i** |  |
| **e ii** |  |
| **f** |  |
| **g** |  |

**SAS Code: (4)**

1. Code heading:

Name,

contact details,

date,

short description

2. Code comments

3. Used macro in question 2?

**Word editing: (1)**

4. Correct use of equation editor for mathematical equations?

**Total Marks (out of 50):**