

**Exam**  
**Applied Microeconometrics Using Stata**

Summer 2018

Choose **either** exercise Q.1 **or** exercise Q.2.

**Q.1**

- Q.1.a What are cross-sectional data, time-series data and panel data?
- Q.1.b What is the goodness-of-fit measure?
- Q.1.c. When is OLS unbiased?
- Q.1.d How can nonlinearities incorporated into linear regression models?
- Q.1.e What is a difference-in-differences approach?
- Q.1.f Explain the instrumental variables approach.

**Q.2**

- Q.2.a What does ceteris paribus mean?
- Q.2.b Explain the basic idea of OLS.
- Q.2.c What happens if there is heteroscedasticity?
- Q.2.d What is multicollinearity?
- Q.2.e What is a fixed-effects method?
- Q.2.f Explain the instrumental variables approach.

**Note:** If you answer both exercises, we will only consider Q.1.