

**ECM2119**  
**UNIVERSITY OF EXETER**  
**COLLEGE OF ENGINEERING, MATHEMATICS**  
**AND PHYSICAL SCIENCES**  
**ENGINEERING**

**Mathematical Modelling of Engineering Systems**

**Module Convenor: Dr H. Alwi**

**Duration: TWO HOURS**

**January 2020**

**Answer ALL questions in Section A (50%) and any TWO of the three questions in Section B (50%).**

**Materials to be supplied:**

Tables of Laplace and Z transforms.

**Materials to be supplied on request:**

Graph paper.

*Approved calculators are permitted.*

This is a **CLOSED BOOK/NOTE** examination.