First Name: _____

Last Name: _____

Student Number: _____

UNIVERSITY OF TORONTO FACULTY OF APPLIED SCIENCE AND ENGINEERING Test 2 – November 19, 2019 First Year **APS110/164** – ENGINEERING CHEMISTRY AND MATERIALS SCIENCE Exam Type: A Examiners – CQ Jia, SD Ramsay Duration: 90 minutes • Permissible Calculators: Casio FX-991 or Sharp EL-520 • Express numerical responses in appropriate units, including	**Marks** ***Part A:*** (/10) ***Part B:*** **1.** (/10) **2.** (/10) **3.** (/10) **4.** (/10) **TOTAL:**