

國立宜蘭大學

103 學年度轉學招生考試

(考生填寫)

准考證號碼：

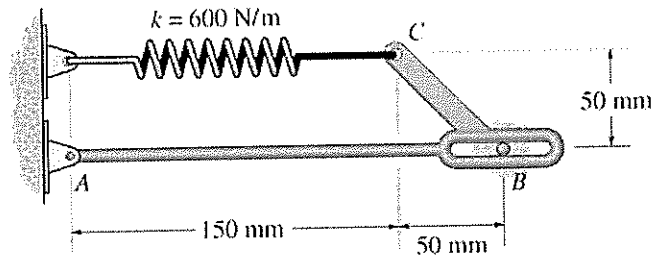
靜力學試題

《作答注意事項》

- 1.請先檢查准考證號碼、座位號碼及答案卷號碼是否相符。
- 2.考試時間：80 分鐘。
- 3.本試卷共有 2 題，一題 50 分，共計 100 分。
- 4.請將答案寫在答案卷上（於本試題上作答者，不予計分）。
- 5.考試中禁止使用手機或其他通信設備。
- 6.考試後，請將試題卷及答案卷一併繳交。

Problem 1. Determine the reactions at the pins A and B . The spring has an unstretched length of 80 mm.

- (1) (10%) Draw the free body diagram of the member ABC ;
- (2) (20%) Write the equations of equilibrium;
- (3) (20%) Calculate the reaction forces at the pins A and B .



Problem 2. Draw the shear and moment diagrams for the beam.

- (1) (10%) Draw the free body diagram of the beam and find the reactions at the pin A ;
- (2) (20%) Write the shear and moment functions;
- (3) (20%) Draw the shear and moment diagrams.

