

國立宜蘭大學

107 學年度暑假轉學招生考試

(考生填寫)

准考證號碼：

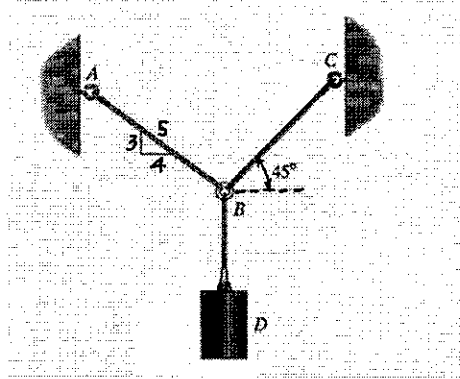
靜力學試題

《作答注意事項》

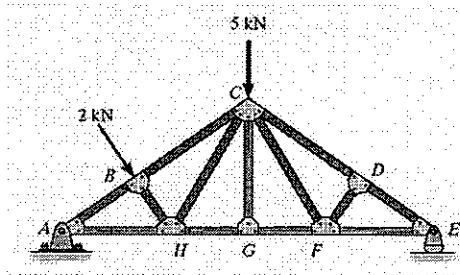
- 1.請先檢查准考證號碼、座位號碼及答案卷號碼是否相符。
- 2.考試時間：80 分鐘。
- 3.本試卷共計 4 題，共計 100 分。
- 4.請將答案寫在答案卷上（於本試題上作答者，不予計分）。
- 5.考試中禁止使用手機或其他通信設備。
- 6.考試後，請將試題卷及答案卷一併繳交。
- 7.應試時不得使用電子計算機。

Problems (4)

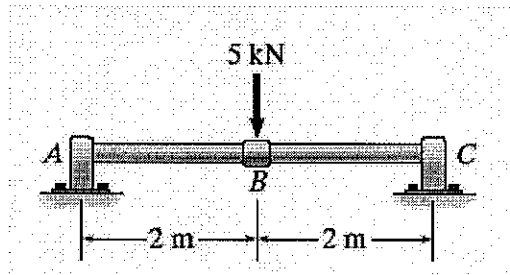
1. Determine the tension in cables BA and BC necessary to support the 60 kg cylinder D.
(30%)



2. Using the method of joints, determine all the zero-force members of the *Fink roof truss*. Assume all joints are pin connected. (20%)



3. Draw the shear and bending moments diagrams for the shaft. The support at A is a thrust bearing and the support at C is a journal bearing. (30%)



4. Compute the moment of inertia of the composite area about the x axis. (20%)

