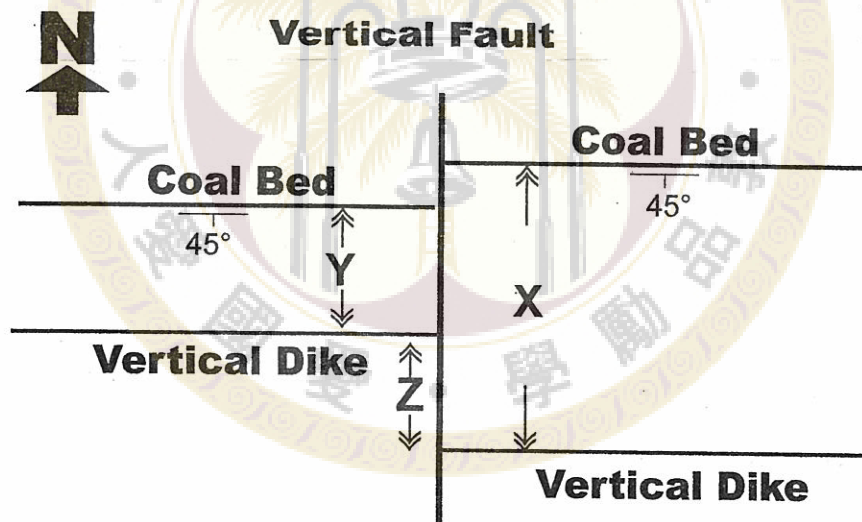


1. 解釋名詞 (30%) : (1) stress & strain, (2) simple shear (3) dynamic analysis (4) mélange (混同層) (5) pseudotachylyte (假玄武玻璃), (6) Mohr-Coulumb criterion (莫爾庫倫準則)
2. Please describe the Anderson' s laws of faulting(請描述安德生的斷層定律?) (10%)
3. 計算下圖斷層的淨位移量 (net slip), 水平位移, 垂直位移 並說明此斷層的性質 (何種斷層, 抬升及侵蝕的部位) (圖中 $X = 210$ m, $Y = 90$ m, $Z = 90$ m)(10%)



4. If σ_1 is vertical and equal to 50 MPa, and is horizontal, east-west, and σ_3 equal to 20 MPa, using a Mohr circle construction determine the normal and shear stresses on a reverse fault striking north-south and dipping 60° west. (10 points)
5. Explain the slip partitioning at an oblique convergent margin (10 points)
6. Explain the brittle regime, brittle-ductile transition and ductile regime in strength profile of lithosphere (15 points)
7. What is the fold transposition? What are the criteria to recognize transposition? (15 points)

試題隨卷繳回