

## Exemplar examination paper

### QUESTION 1

- 1.1 Draw a stress/strain graph of a mild-steel specimen being tested for failure when under tension. Indicate the following:
- 1.1.1 The proportional limit
  - 1.1.2 The elastic limit
  - 1.1.3 The yield point
  - 1.1.4 The maximum load point (ultimate tensile strength)
  - 1.1.5 The point of fracture
- 1.2 The mechanical properties of an aluminium alloy is analysed using a tensile testing machine as shown in Figure 1. The test piece is 13 mm in diameter and has a gauge length of 70 mm.

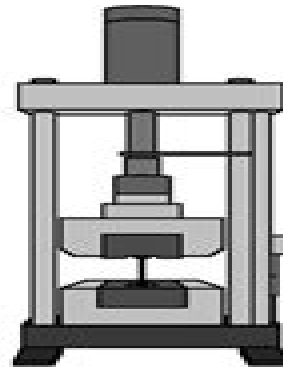


Figure 1

The following results were obtained in the test:

- Load at proportional limit = 32 kN
- Extension at 1 proportional limit = 0,22 mm
- Maximum load = 70 kN
- Fracturing load = 52 kN
- Extension at fracture = 8,33 mm
- Diameter at fracture = 10,45 mm

# Strength Of Materials N5 Past Papers Memo

**Judd E. Hollander**



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