# Exemplar examination paper

#### QUESTION 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 1.3 mm in diameter and has a gauge length of 70 mm.

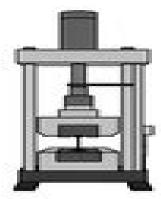


Figure 1.

The following results were obtained in the test:

- Load at proportional limit = 32 kN
- Extension at I proportional limit = 0.22 mm
- Maximum load = 70 kN
- Fractoring load = 52 kN
- Extension at fracture = 8,33 mm
- Diameter at fracture = 10.45 mm.

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