5 A sample of a material is in the form of a wire. The material has a large value of the Young modulus.

A A large force per unit cross-sectional area is required to break the wire.

The mass per unit volume is large.

C The ratio of tensile stress to tensile strain is large.

Which of the following statements best describes the material?

D After removing a large stress the sample returns to its original length.

(Total for Question 5 = 1 mark)