

Y13 Applied Technology Worksheet # 6

Note: Students to attempt this at the back of their exercise book.

QUESTION 6

ENGINEERING MATERIALS

(10 marks)

(a) Explain what are **Sintered** metals?

(1 mark)

(b) Very briefly define the following terms:

(i) Fiberglass.

(ii) Shear stress.

(2 marks)

(c) Distinguish between the **Rockwell** and **Vicker's Hardness** test?

(2 marks)

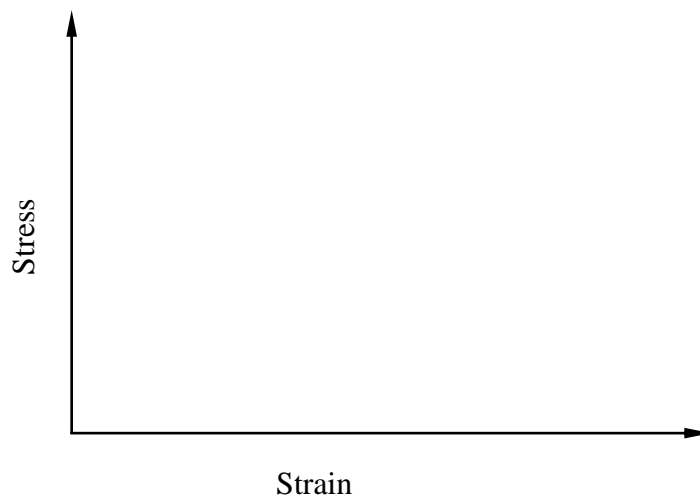
(d) Give two properties of **fiber glass** which are ideally suited for boat building.

(2 marks)

(e) Draw a Stress vs. Strain Curve for low carbon steel. Indicate the following on your drawing:

(i) proportionality limit

(ii) elastic limit



(3 marks)

