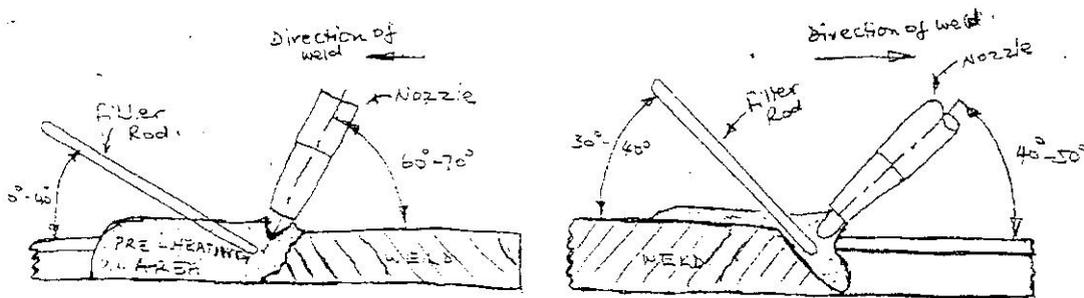


At least four key points in the right sequence were expected in the answer to part (a), of this question. The candidates should have indicated that the edges of the two pieces to be welded should be flanged, aligned, tacked together and finally melted to fuse together.

### Expected Responses



Among the advantages of rightward welding, candidates should have indicated that it is faster than leftward, it uses less gas and its cooling rate is lower hence more ductile.

### Question 14

Figure 6 shows a cold chisel to be made from a hexagonal bar.

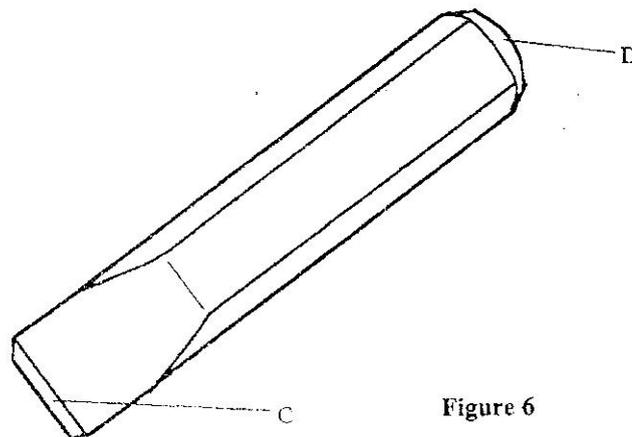


Figure 6

- (a) State **two** properties of a suitable material for making the chisel. (2 marks)
- (b) Outline the procedure of:
- (i) forging the chisel to shape
  - (ii) heat treating the chisel. (7 marks)
- (c) Give the reason for obtaining the surfaces marked C and D. (2 marks)