

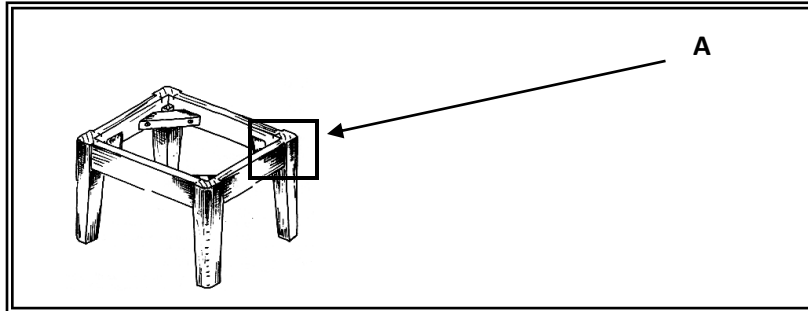
Y11 Applied Technology Worksheet # 2

Instruction: Please do attempt this exercise at the back of your exercise book.

QUESTION 2

(10 marks)

- (a) The diagram given below shows the timber frame members of a table. Study the diagram carefully and answer the questions that follow.



Source: Year 11 Applied Technology, Ministry of Education, 2015.

- (i) What would be the best joint used for the leg and rail labeled A? **(1 mark)**
- (ii) Sketch the joint used for the leg and rail of the table above. **(2 marks)**
- (iii) Name the method of joining used, if the frames of the table are made of metal square tubing. **(1 mark)**
- (b) A sheet metal work equipment is shown in the diagram below. Study the diagram and answer the questions that follow.



Source: Year 11 Applied Technology, Ministry of Education, 2015.

- (i) Identify the cutting equipment above. **(1 mark)**
- (ii) What is the maximum thickness of sheet metal it can cut? **(1 mark)**
- (iii) Explain the purpose of making edges in sheet metal work. **(2 marks)**
- (c) Welding is the process of permanently joining two or more metal parts by melting the edges to be joined using a manual arc welding machine.
- (i) State **one** advantage and one disadvantage of manual arc welding. **(2 marks)**

