

## Y12 Applied Technology Worksheet # 10

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

### QUESTION 10

### DESIGN

(20 marks)

#### Design Problem:

The **pool-side chairs** in hotels are difficult to store.

#### Design Brief:

Design a **pool-side chair** that can be easily stored.

#### Specifications:

The **pool-side chair** should:

- be portable;
- cater for two people;
- be made of readily available materials;
- have a headrest that can be raised and lowered;
- be easily folded using mechanical joint for limited storage space.

#### Requirements:

- Produce pictorial freehand sketches of **two** possible solutions and **label** the parts. **(5 marks)**
- Draw a pictorial rendered freehand sketch of the final solution taking ideas from the two possible solutions. **(4 marks)**
- Produce a detailed drawing to show the joint between any two members. **(3 marks)**
- Explain how the **pool-side chair** will be stored. **(2 marks)**
- Evaluate your final solution on the following criteria:
  - Safety
  - Materials used
  - Functionality**(6 marks)**

