## 5.9.2 Drawing and Design Paper 2 (449/2)

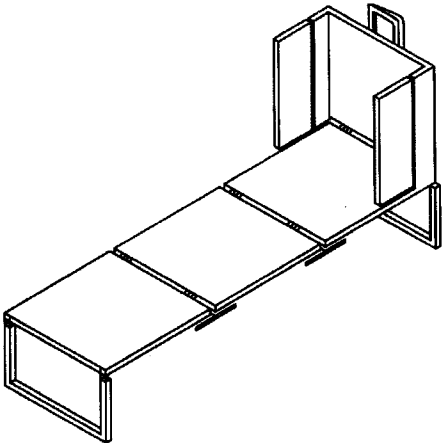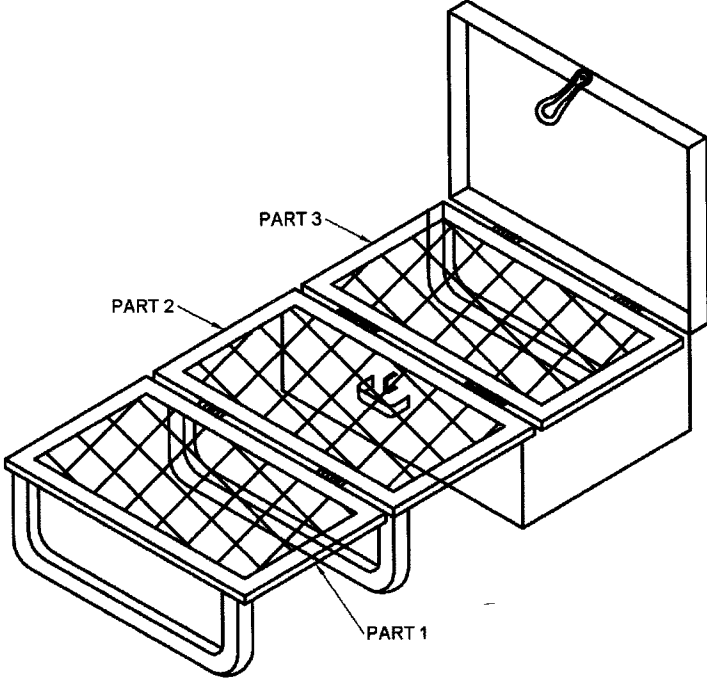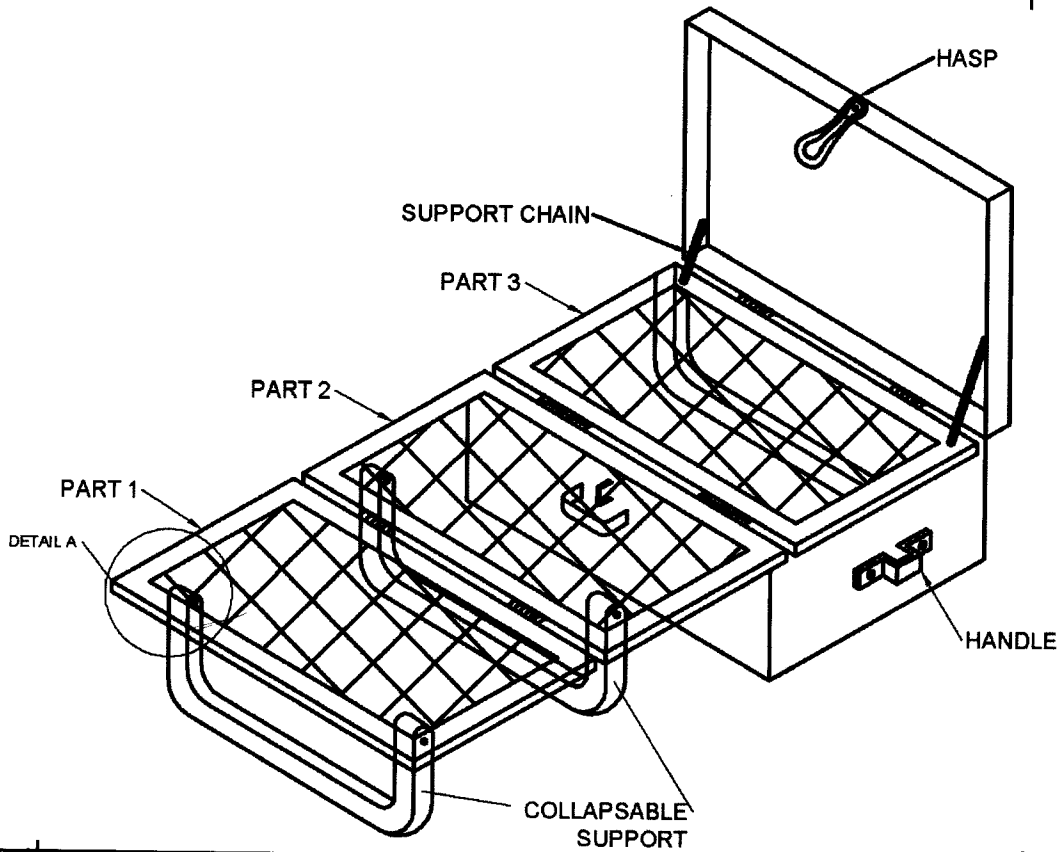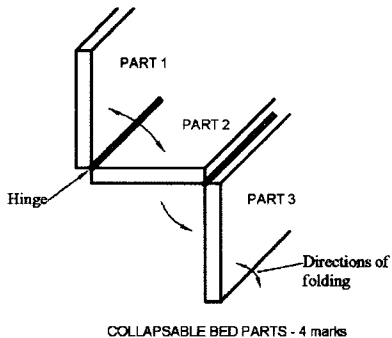| | | |
|---|---|---|
| **A.** | ITEM (BED) — 1<br>COLLAPSABLE — 1<br>FUNCTIONAL — <u>1</u><br><br>    <u>3 marks</u><br><br> | **(3 marks)** |
| **A.** | <br><br>ITEM (BED)   — 1<br>COLLAPSABLE   — 1<br>FUNCTIONAL   — <u>1</u><br>    <u>3 marks</u> | **(3 marks)** |
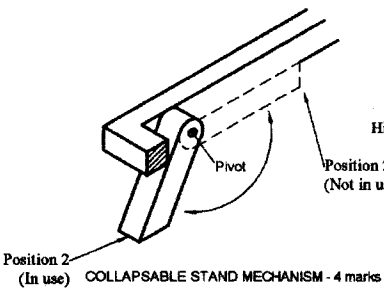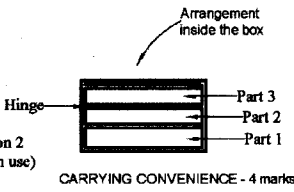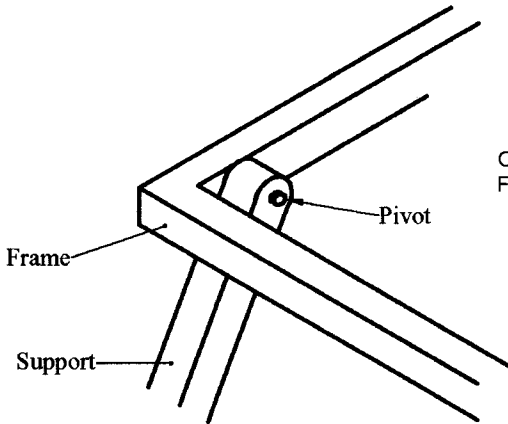
**B.**

| | | |
|---|---|---|
| PICTORIAL | - | 2 |
| LABELLING | - | 2 |
| PROPORTIONALITY | - | 2 |
| COLLAPSABLE | - | 2 |
| STABILITY | - | 2 |
| PORTABILITY | - | 2 |
| | 12 marks | |

**(12 marks)**

HASP

SUPPORT CHAIN

PART 3

PART 2

PART 1

DETAIL A

HANDLE

COLLAPSABLE
SUPPORT

206

| | | |
|---|---|---|
| **C.** | (i)    Working mechanism for consideration 1 <br><br> PART 1 <br> PART 2 <br> Hinge     PART 3 <br> Directions of folding <br> **COLLAPSABLE BED PARTS - 4 marks** <br><br> Arrangement inside the box <br> Hinge    Part 3 <br> Part 2 <br> Part 1 <br> Pivot    Position 2 (Not in use) <br> **CARRYING CONVENIENCE - 4 marks** <br> Position 2 (In use)   **COLLAPSABLE STAND MECHANISM - 4 marks** | **(12 marks)** |
| | (ii) Working mechanism for consideration 3 <br> DETAIL A <br><br> CONSIDERATION 3 <br> FUNCTIONALITY/STABILITY - 4 marks <br> Pivot <br> Frame <br> Support | **(4 marks)** |
| **D.** | Materials used in the design <br> -   Mild steel – frame and support <br> -   Aluminium – frame and support <br> -   Sheet metal – case <br> Accept any other appropriate material <br><br>             ◻   Naming – 2 x 1 = 2 <br> ◻   Use – 2 x 1 = <u>2</u> <br> <u>4 marks</u> | **(4 marks)** |
| **E.** | Joining methods <br> -   Hinges <br> -   Bolts and nuts <br> -   Riveting <br> -   Welding <br> Accept any other correct method. <br><br> 2 methods x 1 = | **(2 marks)** |