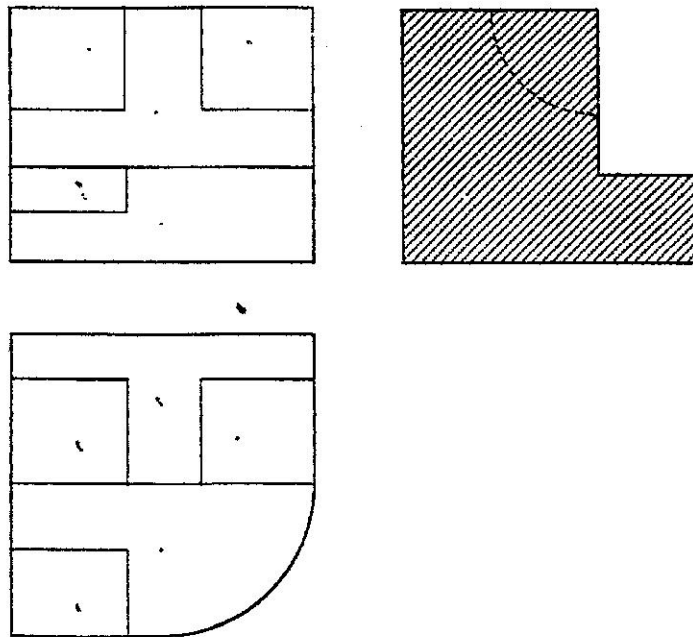


Expected Response



23.2 PAPER 2 (449/2)

The question required the candidates to design a device that can be tilted at the door of a bus to enable people on wheel chairs to board or alight with minimum assistance. The design was to have the following considerations:-

- i) It should be part of the bus but should not occupy passenger space.
- ii) It should not protrude beyond the body of the bus when not in use.
- iii) It should allow for safe self-wheeling in and out of the bus.

In requirement (a) the candidates were expected to present two rough sketches of their respective designs.

Requirement (b) expected candidates to select one of the designs sketched in (a) and make a refined pictorial drawing and label the main parts.

Requirements (c) expected candidates to make detailed exploded sketches of the working mechanisms used in each of the considerations.

Requirements (d) candidates were required to name three different materials used in the design and state where each material is used.

In (e) candidates were required to list two methods of joining the parts of the device and state why each is used.