

# CEED – Design Drawing & Writing Skills

## Sample Paper – 1

Duration: 105 Minutes | Maximum Marks: 100

### Instructions

- This paper contains **5 questions** on drawing and writing skills, modelled on the **CEED Part B** (subjective) examination pattern. **All questions are compulsory.**
- There is **no negative marking**. Attempt every question; partial credit is awarded for incomplete but annotated work.
- Use **pen or pencil only**; rulers and set-squares are permitted for structural sketches.
- Note the **marks allotted and the suggested time** printed with each question and plan accordingly.
- **Annotate your drawings** with labels, dimensions, and material notes wherever the question requires it — annotated partial answers are awarded more credit than blank pages.
- **Mobile phones and electronic devices** are strictly prohibited inside the examination hall.

### Questions

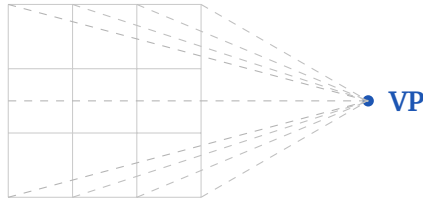
#### Q1. [25 Marks | Suggested Time: 22 min]

From *memory*, make a **freehand sketch of a wooden study chair**. Your answer must include all three views listed below:

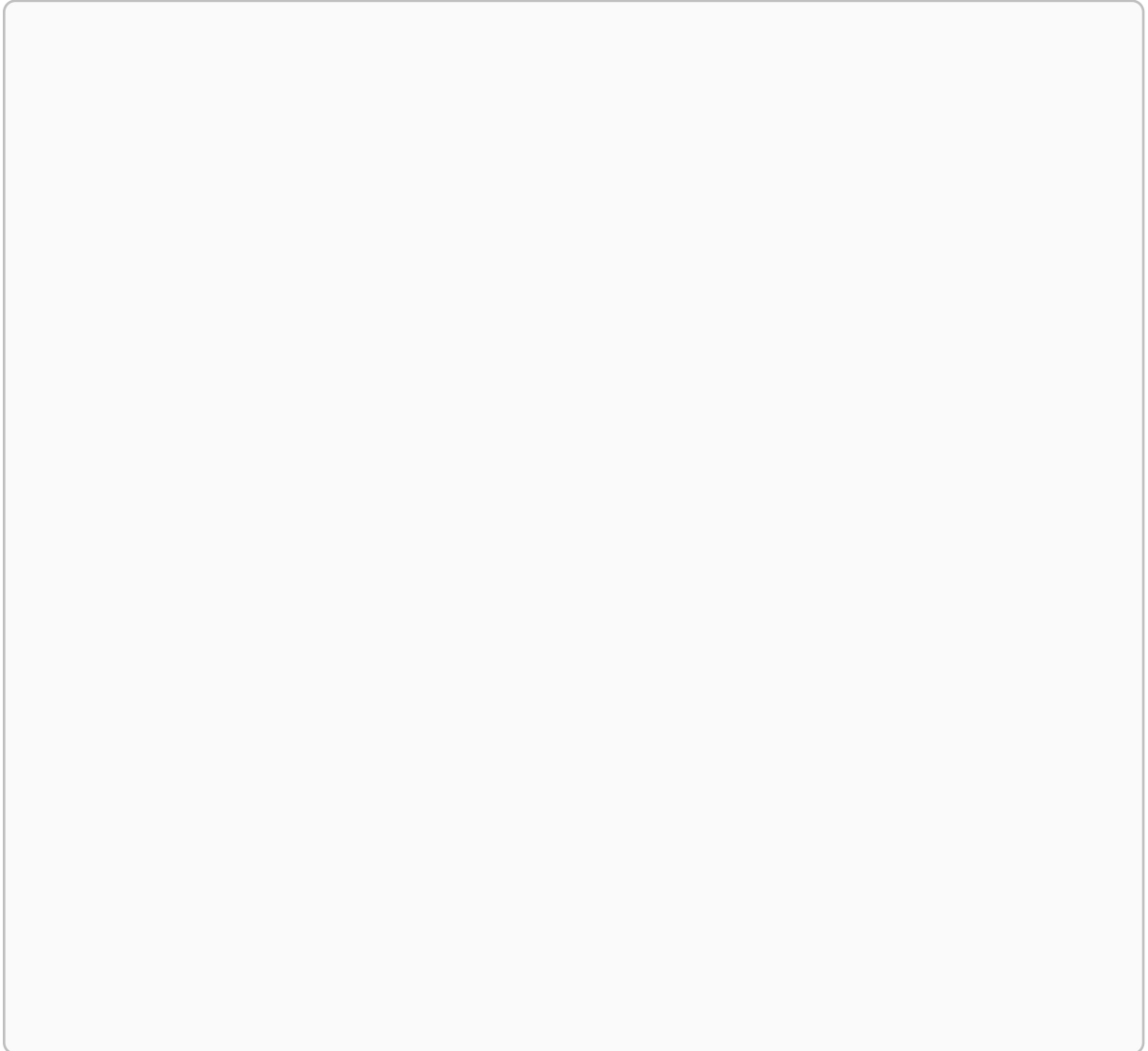
- (a) A **front orthographic view** showing plausible proportions (seat height, back height, leg width).
- (b) A **side profile (orthographic) view** showing the back tilt and seat depth.
- (c) A **3D perspective sketch** of the chair in three-quarter view, with **light and shadow** rendered on at least one face.

**Label at least 5 structural parts** (e.g., seat, backrest, front leg, rear leg, stretcher, armrest, seat rail) on any one of the three views. Use the one-point perspective grid below as a reference for your 3D sketch.





*One-Point Perspective Reference Grid*



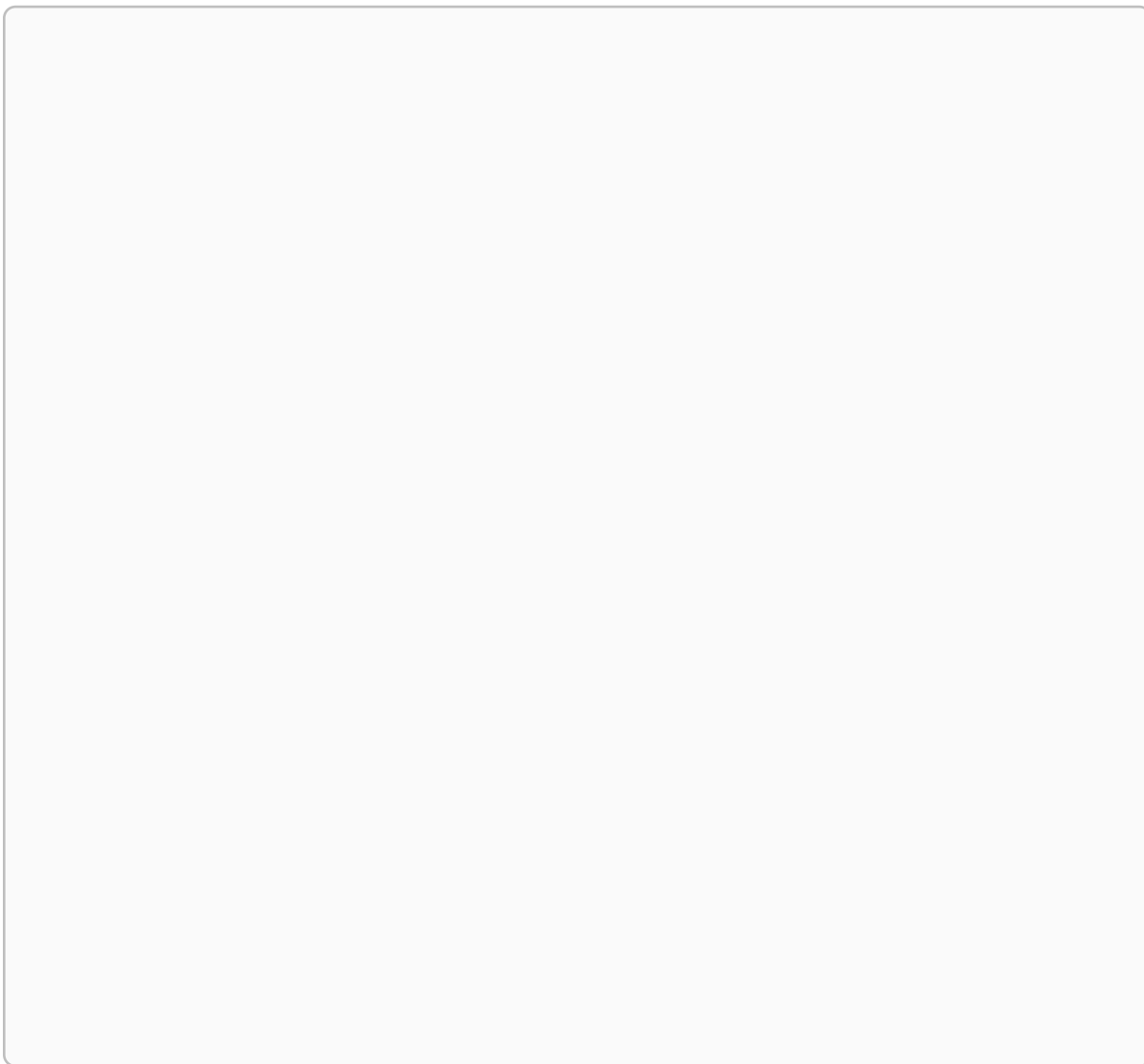
**Q2. [20 Marks | Suggested Time: 20 min]**

Design a **compact, hand-operated water purifier** for use in rural India that requires *no electricity*. Your answer must include all three parts below:

- (a) A **3D sketch in three-quarter (isometric-like) view** showing the overall form of the purifier as a user would hold or operate it.
- (b) An **exploded view or cut-away** revealing at least **2 internal components** (e.g., filter chamber, activated-carbon layer, ceramic membrane, hand-pump mechanism).
- (c) **Labels and annotations** specifying materials used, and the **approximate overall dimensions** so a viewer can judge whether the device is hand-held or bench-top in



scale.



**Q3. [20 Marks | Suggested Time: 20 min]**

Create a **single-frame visual composition** communicating the theme “**Noise Pollution in a City**” *without using any text inside the image frame*. The composition must:

- Include a **mix of organic and geometric forms** (e.g., sound waves, human silhouettes, building outlines, vehicle shapes, concentric arcs).
- Demonstrate **visual rhythm and repetition** as a deliberate design device.
- Have a **clear focal point** that immediately anchors the viewer’s gaze.

After your image, write **2–3 sentences** in the space provided explaining your composition intent — what you wanted the viewer to feel or understand.



**Composition intent (2–3 sentences):**

**Q4. [20 Marks | Suggested Time: 20 min]**

Create a **6-panel storyboard** illustrating the following scenario:

*A visually impaired person arrives at a hospital reception (Panel 1), asks a staff member for directions (Panel 2), is guided to the correct department (Panel 3), waits in the waiting area (Panel 4), meets the doctor in the consultation room (Panel 5), and leaves the hospital with a prescription (Panel 6).*

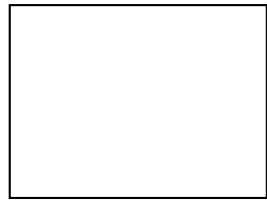
For **each panel** include:

- **Character silhouettes** with clear visual cues (white cane, reception counter, waiting chairs, doctor's coat, prescription sheet, etc.).
- **Environment cues** (reception desk, corridor signage, waiting area, examination table, exit).

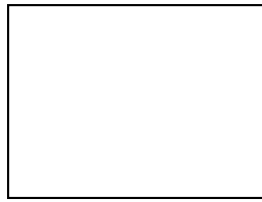


- A **caption of no more than 10 words** written below the panel border.

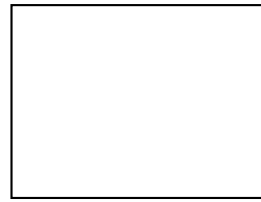
Draw inside the rectangles in the storyboard grid below and write captions beneath each panel.



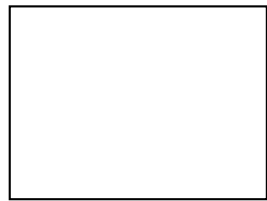
**Panel 1**



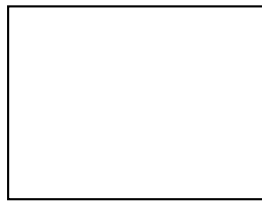
**Panel 2**



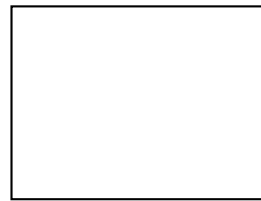
**Panel 3**



**Panel 4**



**Panel 5**



**Panel 6**

*(Use the grid above for sketches. Write a caption of  $\leq 10$  words below each panel.)*

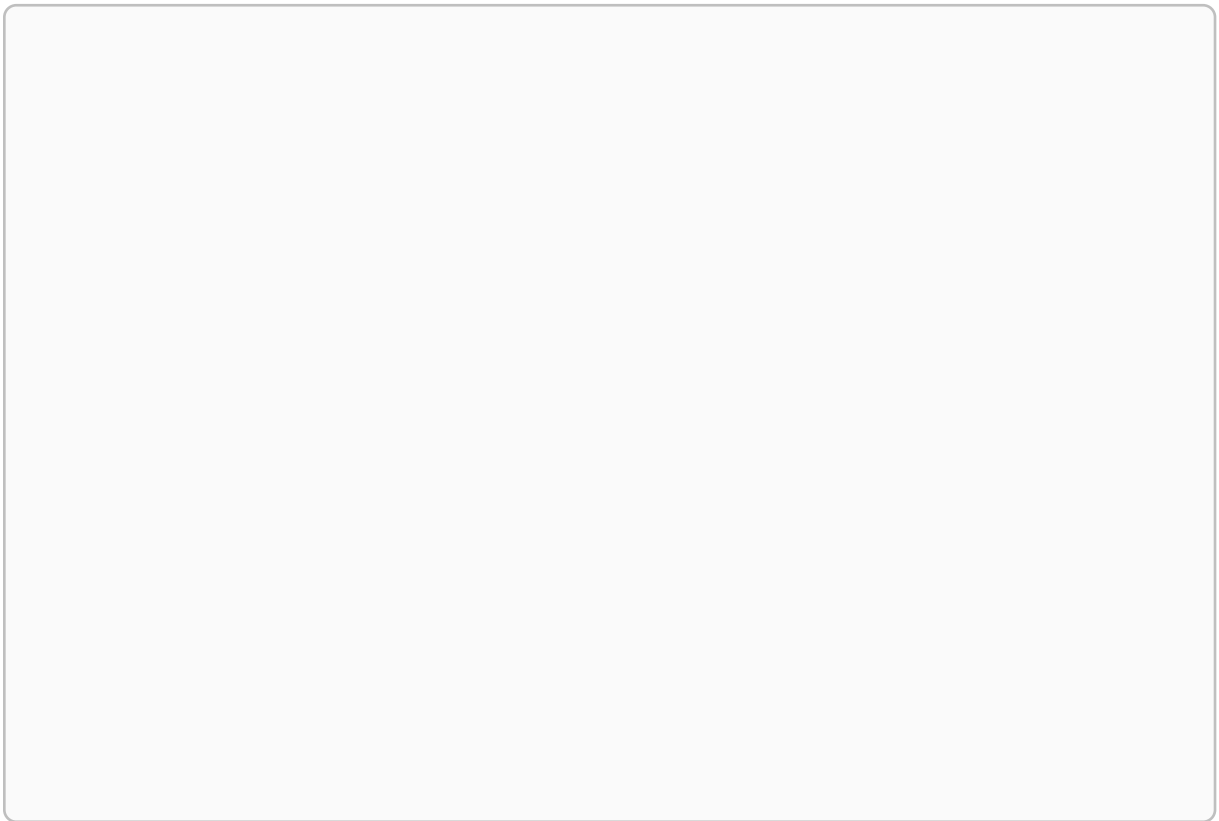
**Q5. [15 Marks | Suggested Time: 15 min]**

Write approximately **150 words** on the following topic:

*“How thoughtful product design can help reduce food wastage in urban households.”*

In your response, **identify 2–3 specific pain-points** that lead to food wastage in urban homes, and **propose a concrete design intervention** (a product, system, or service) that addresses those pain-points. Write in **clear paragraphs** — bullet points will not be accepted.





### Evaluation Guide

#### Q1. Freehand Sketch of a Wooden Study Chair

[25 Marks]

##### Evaluation Criteria

| Criterion                                                    | Marks     |
|--------------------------------------------------------------|-----------|
| Front and side orthographic views with plausible proportions | 6         |
| 3D perspective sketch recognisable as a study chair          | 7         |
| Light and shadow rendered on at least one face               | 4         |
| Five or more structural parts correctly labelled             | 5         |
| Line quality and overall visual clarity                      | 3         |
| <b>Total</b>                                                 | <b>25</b> |

*Note: Deduct 2 marks if fewer than three views are present.*

#### Q2. Hand-Operated Water Purifier Design

[20 Marks]



**Evaluation Criteria**

| <b>Criterion</b>                                                         | <b>Marks</b> |
|--------------------------------------------------------------------------|--------------|
| Coherent 3D sketch with a user-holdable or portable form                 | 5            |
| Exploded or cut-away view with at least two internal components          | 5            |
| Annotations specifying materials used                                    | 5            |
| Approximate overall dimensions clearly indicated                         | 2            |
| Design originality appropriate for rural Indian context (no electricity) | 3            |
| <b>Total</b>                                                             | <b>20</b>    |

**Q3. Visual Composition: Noise Pollution in a City****[20 Marks]****Evaluation Criteria**

| <b>Criterion</b>                                                             | <b>Marks</b> |
|------------------------------------------------------------------------------|--------------|
| Concept clearly communicated without text inside the image                   | 6            |
| Mix of organic and geometric forms present                                   | 4            |
| Visual rhythm and repetition as a deliberate design element                  | 4            |
| Clear focal point anchoring the viewer's attention                           | 3            |
| Composition intent statement (2–3 sentences) is relevant and clearly written | 3            |
| <b>Total</b>                                                                 | <b>20</b>    |

**Q4. Storyboard: Visually Impaired Patient at a Hospital****[20 Marks]**

**Evaluation Criteria**

| <b>Criterion</b>                                           | <b>Marks</b> |
|------------------------------------------------------------|--------------|
| All 6 panels present with clear borders                    | 3            |
| Logical and coherent narrative sequence across all panels  | 4            |
| Characters and environment cues identifiable in each panel | 5            |
| Captions of 10 words or fewer for each panel               | 4            |
| Overall visual storytelling quality and expressiveness     | 4            |
| <b>Total</b>                                               | <b>20</b>    |

**Q5. Product Design and Food Wastage (Writing)****[15 Marks]****Evaluation Criteria**

| <b>Criterion</b>                                                | <b>Marks</b> |
|-----------------------------------------------------------------|--------------|
| Identifies 2–3 specific pain-points that lead to food wastage   | 4            |
| Proposes a specific and feasible design intervention            | 5            |
| Well-organised paragraph structure (bullet points not accepted) | 3            |
| Grammar, vocabulary, and clarity of expression                  | 3            |
| <b>Total</b>                                                    | <b>15</b>    |

**Total Marks: 100 | No Negative Marking***Attempt all questions. Annotated, partially complete answers score better than blank pages.*