

CEED – Design Drawing & Writing Skills

Sample Paper – 3

Duration: 105 Minutes | Maximum Marks: 100

Instructions

General Instructions:

- This paper constitutes **Part B** of the CEED examination and consists of **5 subjective questions** — drawing-based, observation-based, and written tasks. There are **no multiple-choice questions**.
- **There is no negative marking.** Attempt every question; partial attempts will receive partial credit based on the evaluation rubric.
- Candidates must use only **pen or pencil** for drawings and written answers. Use of digital devices, rulers for freehand sketches, or stencils is **not permitted**.
- Read each question carefully. Note the **marks** and **suggested time** printed alongside each question and plan your attempt accordingly.
- **Annotate all drawings** clearly — label materials, dimensions (approximate), key components, and any relevant design decisions.
- **Mobile phones and electronic devices are strictly prohibited** in the examination hall. Any violation will lead to immediate disqualification.



Questions

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

Draw human hands from observation (if a real hand is available) or from memory in three different positions:

- (a) A hand gripping a cylindrical mug (fingers wrapped around the body of the mug, thumb opposing).
- (b) A hand in a pinch grip holding a pen and in the act of writing (pen resting between thumb, index, and middle finger).
- (c) A hand pressing flat on a touchscreen with fingers slightly splayed, palm lowered.

Requirements for each position:

- Sketch the hand in a confident line-art style — avoid sketchy or overly tentative strokes.
- Show finger joint positions clearly (interphalangeal and metacarpophalangeal joints).
- Add light shading to suggest volume and three-dimensionality.
- Label at least 3 anatomical landmarks per hand (e.g., knuckle, thenar muscle, fingertip pad, nail bed, webspace).

Drawing space for Q1 — use the examination answer booklet pages.

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

Design a portable solar-powered lantern intended for outdoor trekkers and campers.

Your design must satisfy the following constraints:



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- Works for a minimum of 8 hours on a single

Evaluation Guide

Q1. Human Hands — 25 Marks

Evaluation Criteria

Criterion	Marks
All three hand positions attempted and identifiable	6
Finger joint positions (IP and MCP joints) clearly shown in each position	6
Light shading applied to suggest volume in each hand	5
At least 3 anatomical landmarks correctly labelled per hand	5
Overall line confidence, proportion, and gestural accuracy	3
Total	25

Q2. Portable Solar Lantern — 20 Marks

Evaluation Criteria

Criterion	Marks
Deployed 3D three-quarter sketch is coherent and shows lantern form clearly	5
Packed / collapsed position sketch present and distinguishable from deployed	3
Mechanism sketch (solar attachment)	3



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Total Marks: 100 | No Negative Marking

Attempt all questions.

