

CEED – Design Drawing & Writing Skills

Sample Paper – 2

Duration: 105 Minutes | Maximum Marks: 100

Instructions

- This paper contains **5 drawing and writing questions** modelled on CEED Part B (subjective). **All questions are compulsory.**
- There is **no negative marking**. Attempt every question; partial credit is awarded.
- Use **pen or pencil only**. No additional sheets will be provided beyond the designated answer space for each question.
- Note the **marks and suggested time** allotted to each question and plan your time accordingly.
- **Annotate your drawings** with labels, dimensions, or brief notes wherever relevant — annotations are assessed and carry marks.
- **Mobile phones and electronic devices** are strictly prohibited inside the examination hall.

Questions

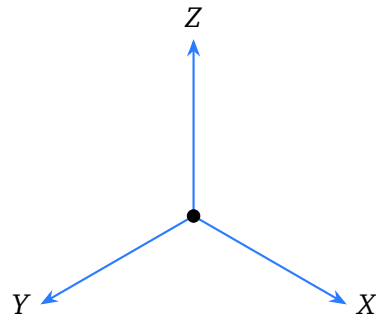
Q1. [25 Marks | Suggested Time: 22 min]

Freehand sketch a **bicycle** from memory. Your answer must include all three parts below:

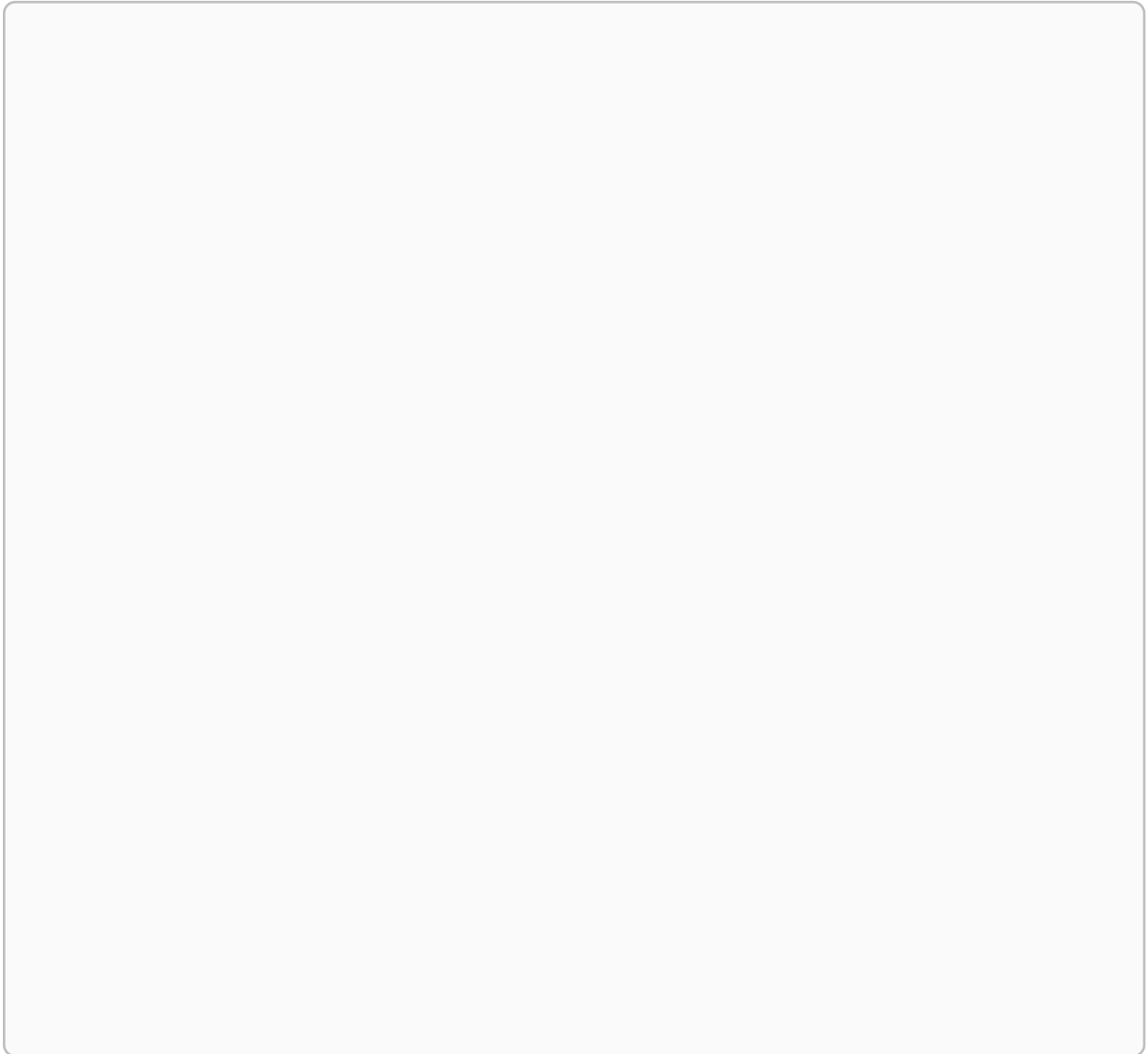
- (a) An accurate **side (orthographic) view** showing all major components: frame (top tube, down tube, seat tube, chain stays, seat stays), wheels with spokes, handlebars, seat/saddle, chain, and pedals.
- (b) A **front view** clearly showing the handlebar width and the fork.
- (c) A **3D three-quarter perspective sketch** of the bicycle with a ground shadow beneath it.

Label at least 6 components across your sketches. Use the isometric axis reference below to orient your perspective sketch.





Isometric reference axes



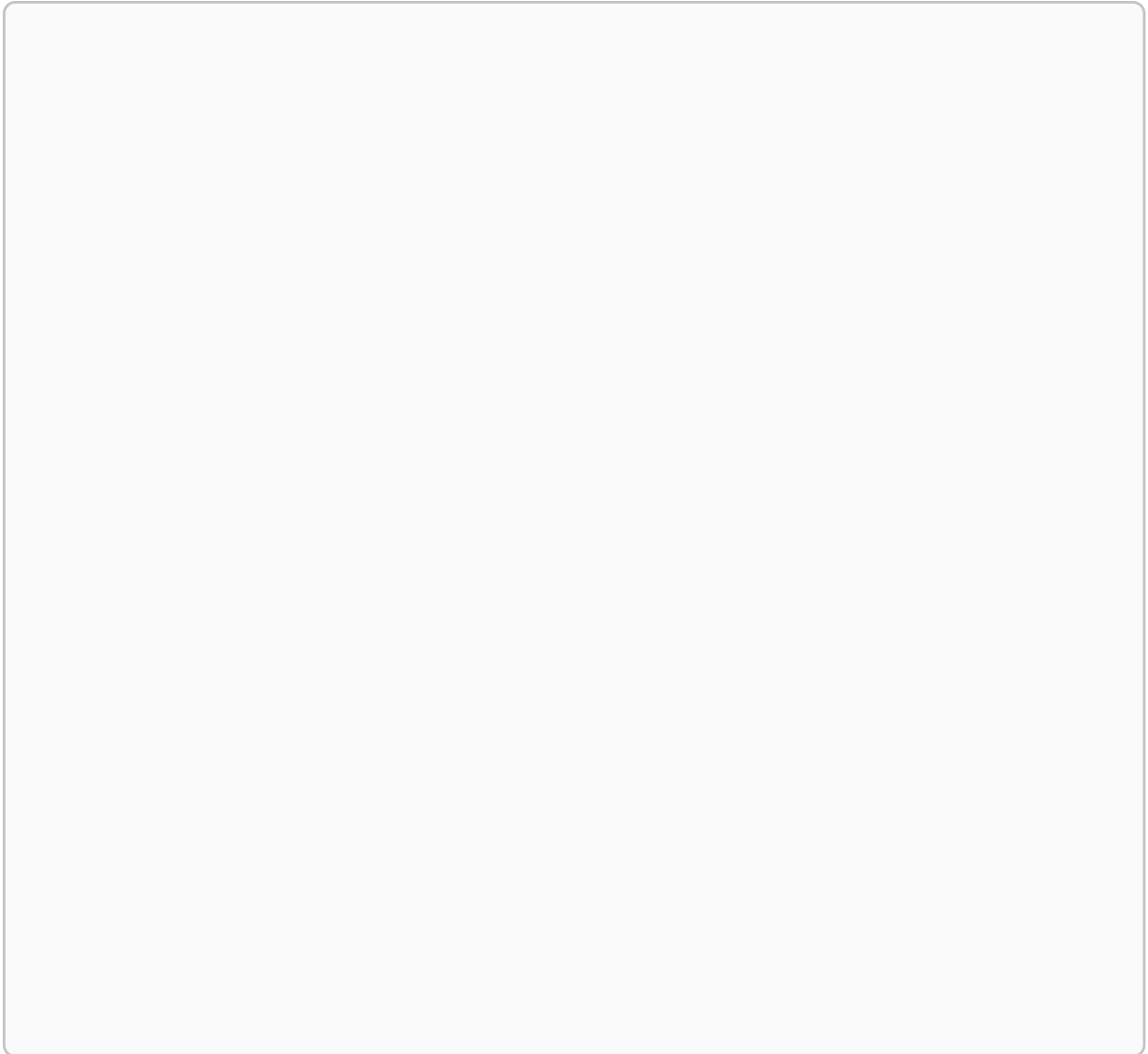
Q2. [20 Marks | Suggested Time: 20 min]

Design a **foldable laptop stand** for remote workers that can fit inside a standard backpack when collapsed. Your answer must include all four parts below:

- (a) A **3D sketch** showing the stand in its **open, in-use position** with a laptop resting on it (or implied by the angle of the platform).
- (b) A separate sketch showing the **folded/collapsed form** with approximate collapsed dimensions annotated (height $\times$ width $\times$ depth).



- (c) An **exploded or close-up detail sketch** of the **folding joint mechanism**, showing how the hinge or locking element works.
- (d) **Annotations** covering: materials (e.g., aluminium alloy, ABS plastic, rubber feet), an estimated total weight, and one **USP (Unique Selling Point)** of your design.



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

Create a **visual metaphor** for the concept of “*Digital Addiction*” as a single poster-style composition. **No words or text are permitted inside the image area.**

- (a) The composition must use **at least one recognisable object** (e.g., a smartphone, screen, hand, or eye) that is **transformed or juxtaposed** to suggest addiction or entrapment.
- (b) Use **light and dark contrast** deliberately to establish mood.
- (c) The composition must remain **legible and readable at thumbnail size** — avoid using intricate fine detail as the primary visual element.



After your image, write **2–3 sentences** in the space provided explaining the symbolic choices you made.

Symbolic explanation (2–3 sentences):

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

Redesign a **bus stop shelter** suited to a **monsoon-heavy city** (e.g., Mumbai or Kolkata).
Sketch:

- (a) A **3D three-quarter view** of the shelter showing overall form and enclosure.
- (b) **One elevation** (front or side) with key dimensions indicated.

Your design **must** address all four requirements below; **annotate each one clearly** on your sketches:

- Seating for **at least 6 people**.



- **Rain protection from all sides** (roof overhang, side panels, splash guards, drainage).
- A clear **display area for bus route information** (digital board or printed panel).
- **Accessibility for wheelchair users** (ramp, tactile path, adequate turning clearance).

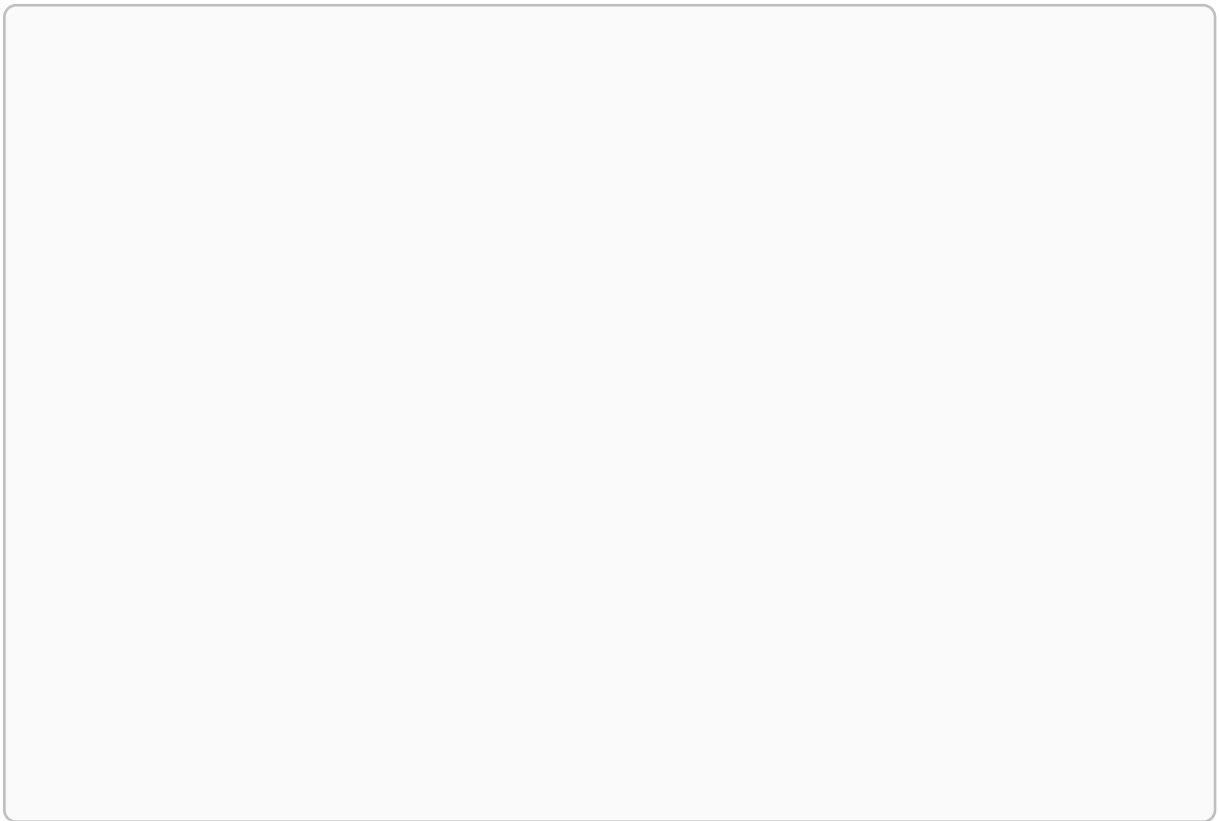
Q5. [15 Marks | Suggested Time: 15 min]

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

“The importance of ergonomics in everyday furniture design.”

In your response, **identify 2–3 specific ergonomic problems** found in commonly used furniture (chairs, desks, or beds), and **suggest one design principle to address each problem**. Write in **clear paragraphs** — bullet points will not be accepted.





Evaluation Guide

Q1. Bicycle Sketches

[25 Marks]

Evaluation Criteria

Criterion	Marks
Side (orthographic) view with all major components present and correctly arranged	7
Front view present and proportionate (handlebar width and fork clearly visible)	5
3D three-quarter perspective sketch with ground shadow beneath the bicycle	6
At least 6 components labelled across the three views	4
Line confidence, proportional accuracy, and overall visual clarity	3
Total	25

Q2. Foldable Laptop Stand

[20 Marks]



Evaluation Criteria

Criterion	Marks
3D sketch of open/in-use position is coherent and the stand appears visually stable	5
Folded/collapsed sketch with annotated approximate dimensions	4
Folding joint / mechanism detail sketch (exploded or close-up) showing the hinge or lock	4
Annotations covering materials, estimated weight, and one clear USP	4
Overall compactness, portability, and practical feasibility of the design	3
Total	20

Q3. Digital Addiction Poster**[20 Marks]****Evaluation Criteria**

Criterion	Marks
Concept of “digital addiction” communicated clearly through image alone (no text)	6
Effective transformation or juxtaposition of a recognisable object	4
Light-and-dark contrast used intentionally to establish mood	4
Composition remains legible and readable at thumbnail size	3
Symbolic explanation is concise, relevant, and clearly written	3
Total	20

Q4. Monsoon Bus Stop Shelter**[20 Marks]**

Evaluation Criteria

Criterion	Marks
3D three-quarter view <i>and</i> one elevation both present in the response	4
Rain protection addressed (roof overhang, side panels, splash guards, drainage)	4
Seating for ≥ 6 people and accessibility for wheelchair users addressed	4
Bus route information display area addressed and annotated	4
All design features annotated clearly on the sketches	4
Total	20

Q5. Ergonomics in Furniture Design (Writing)**[15 Marks]****Evaluation Criteria**

Criterion	Marks
Identifies 2–3 specific ergonomic problems in common furniture with concrete examples	4
Proposes a clear and relevant design principle to address each identified problem	5
Well-organised paragraph structure (bullet points not accepted)	3
Grammar, vocabulary, and overall clarity of expression	3
Total	15

Total Marks: 100 | No Negative Marking*Attempt all questions.*