

राष्ट्रीय डिज़ाइन संस्थान
NATIONAL INSTITUTE OF DESIGN

NID M.DES 2019

Original Paper

Solved From

SILICA
YOUR DESIGN CAREER GUIDE

M.Des. DAT Prelims Sample Test Papers

Part-I

CDAT

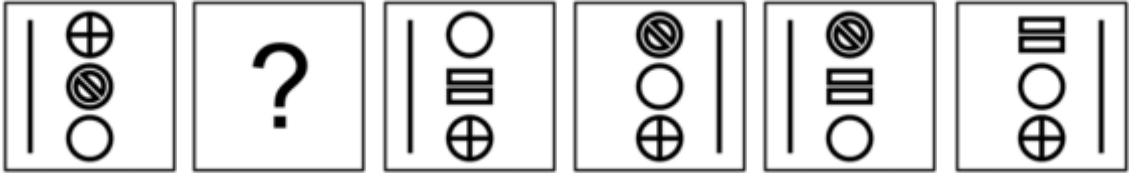
(Common Design Aptitude Test)

PART 1

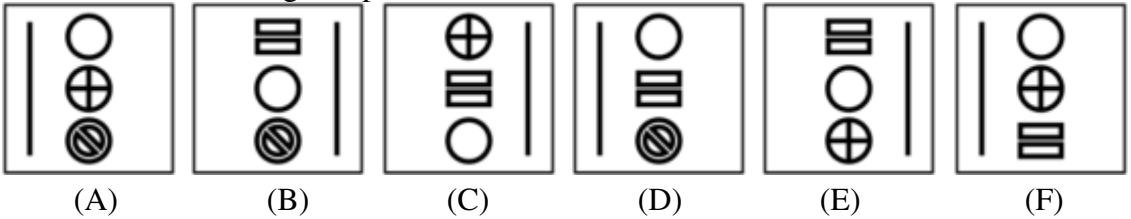
Do not write your name anywhere in the booklet. This will lead to disqualification. Please read the question carefully and follow the instructions provided.

Directions: Question No.1 carries 1.0 mark.

Q1. Study the following series of images.



Which of the following completes the series above?



Answer: _____

Directions: Question No. 2 to 9 carries 2 marks each.

Q2. Below are the national flags of Pakistan (Image 01) and Bhutan (Image 02) in gray scale.



Image 01: National flag of Pakistan

Image 02: National flag of Bhutan





Based on the color actually used in the national flags of Pakistan and Bhutan, indicate from the list below that they belong to.

[Complementary, Analogous, Monochrome, Primary, Secondary, None]

Color scheme of the national flag of Pakistan: _____





Color scheme of the national flag of Bhutan: _____

Q3. Following are the images of animals used by organizations in their identity / branding / logo. In the space below each image write the name of the brand / company associated with it.

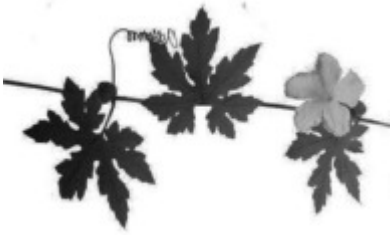



Q4. The following patterns/symbols/icons fully / partially represent the branding / identity of companies or organizations. In the space below each image write the area/domain in which the company/organization operates.

Choose the area/domain from: Telecommunication, Automobile, Pharmaceutical, Food & Beverages.

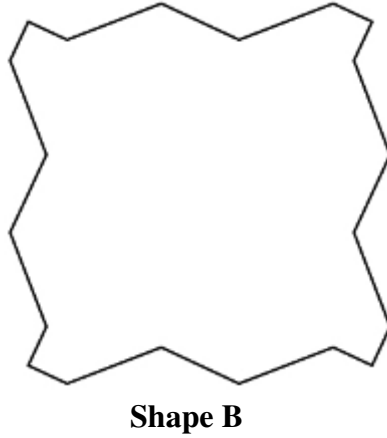
			

Q5. Following are the images of leaves of vegetables. In the space below each image write the name of the vegetable for the leaf.

Choose the vegetable leaf from: Lemon, Lady Finger, Bitter gourd, Tomato.

Q6. Refer the shape A and shape B below. How many times does shape A need to be repeated in order to fill shape B completely (without overlapping and leaving any gaps in between)?



Answer: _____

Q7. Write the name of the country for each of the object/clothing/architecture from where it belongs to in the space provided below the image of an object.

Choose the country from Ethiopia, Bhutan, Mexico and Russia.



Image 01 _____

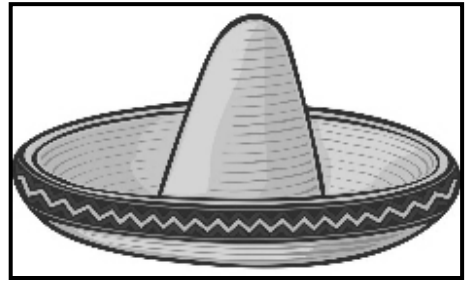


Image 02 _____



Image 03 _____



Image 04 _____

Q8. Following are images of “Indian Wall Art” being practiced in different regions across India. Below each image write the name of the State to which it belongs.



State: _____



State: _____



State: _____



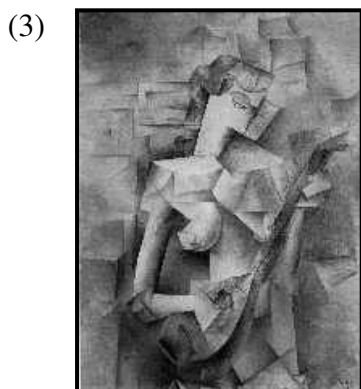
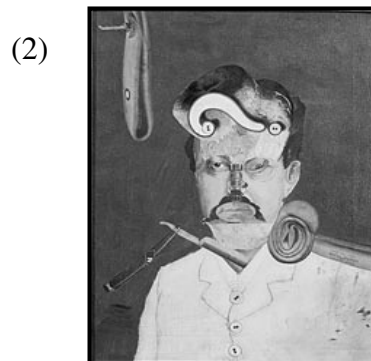
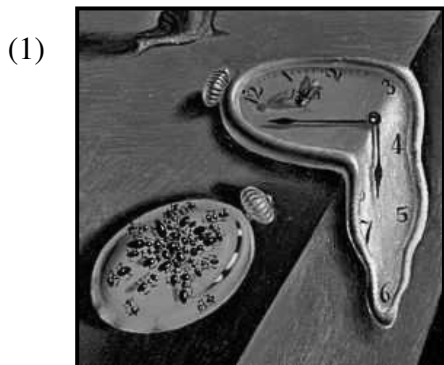
State: _____

Q9. Study the images of Set 01 and Set 02.

Images of Set 01



Images of Set 02

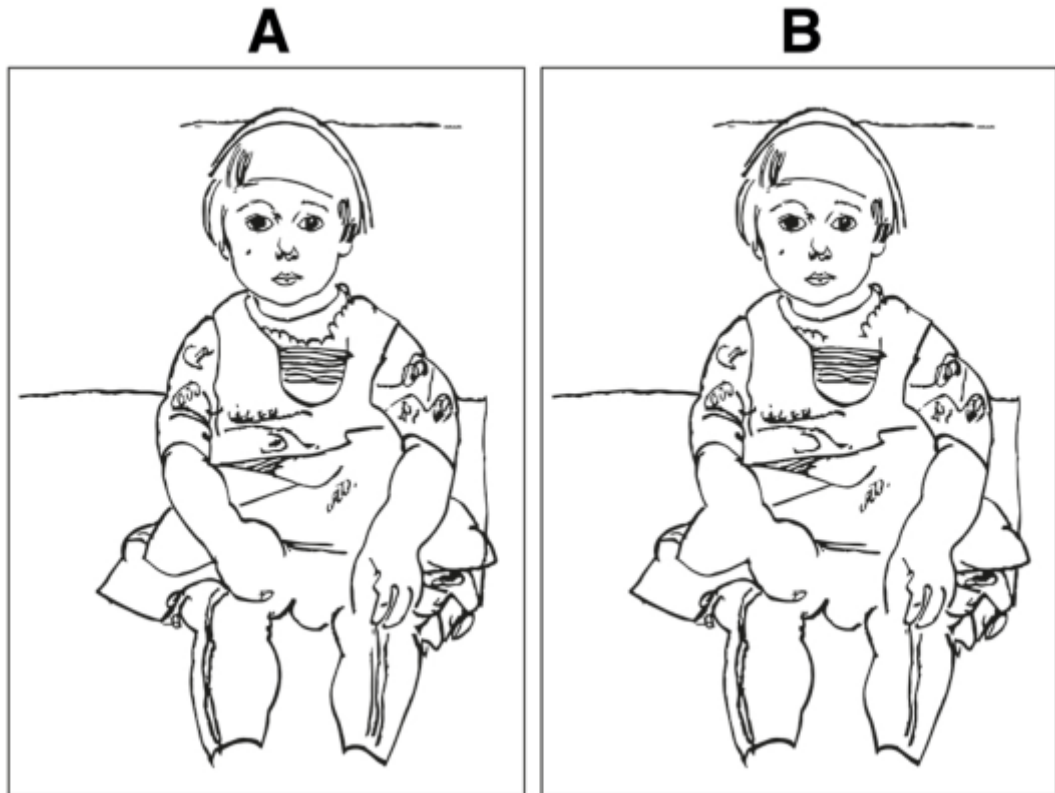


Associate visual expression of images of Set 01 to Set 02 and write the answer below:


(A) _____ (B) _____ (C) _____ (D) _____


Directions: Question No. 10 to 11 carries 2.50 marks each.

Q10. Identify five differences between image A and B. Circle the differences in image B.



Q11. Below are the symbols of sustainable development goals as published by United Nations Development Programme (UNDP). Write the goal in words against each symbol.

a)  _____

b)  _____

c)  _____

d)  _____

e)  _____

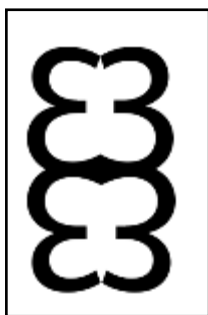
Directions: Question No. 12 carries 3.0 marks.

Q12. Study the images below. Identify the pattern and draw the image which comes next in box No 04.

Draw the image in black colour only. Thickness of the pattern must be same as images 01, 02 and 03.



01



02



03



04



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M.Des./PGDPD

**DAT Prelims Sample
Test Paper**

YOUR DESIGN CAREER GUIDE

Part II

Part-II: Domain Specific Test

(Communication Design)

YOUR DESIGN CAREER GUIDE

Questions 1 to 5 are subjective type questions. Do not write your name anywhere in the booklet. This will lead to disqualification.

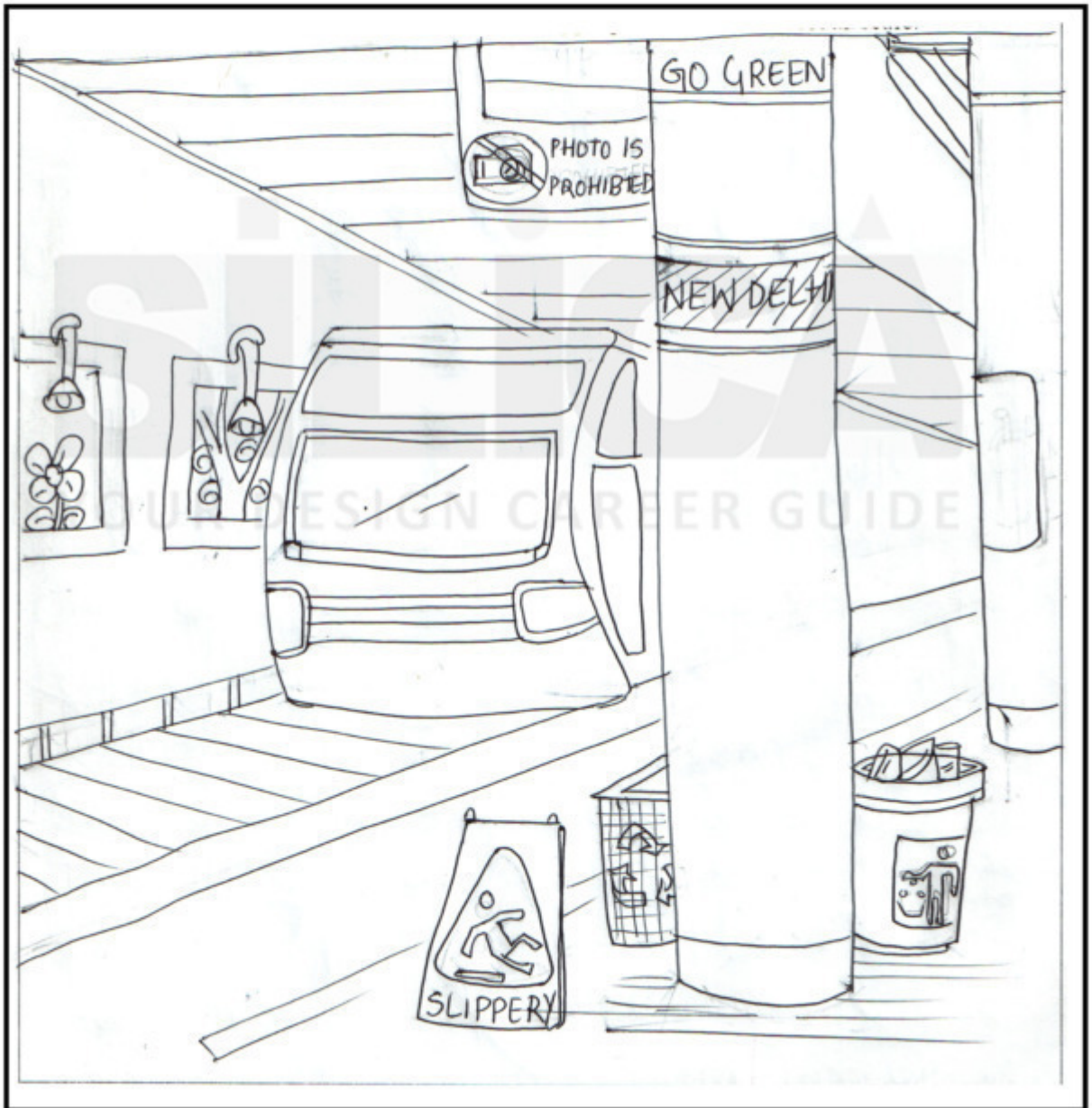
Q1. Five pictographs are given below.

(20 marks)



Draw one scenario in which these pictographs may be present.

Include the pictographs in your drawing, at the appropriate locations/colour/scale.



Q2. Your task is to prepare a campaign to meet the gender equality goals of your college/organisation.

TASK A

Write about 5 situations in your college/organisation where gender equality can be improved.

Each point should be written in not more than 2 sentences.

(1 x 5 = 5 marks)

- I. In college campuses, there is always students' committee and a president to handle management & student issues. Girls should also be given equal importance to stand in elections.
- II. Training workshops for new & freshers are given at the commencement of every academic year. Women & Men can both train new students on core career skills, work-life balance etc.
- III. Equality on the basis of harassment & sexual abuse can be improved. In universities, bullying & ragging is famous by seniors but not only women should be ragged by men but vice-versa.
- IV. Female students are also encouraged in group discussions and class speeches. They should also have a right to counter question the opposite sex & vice versa.
- V. Gender equality can be improved on the basis of culture, cast & creed. If a man/woman is black or Hindu/muslim etc. they should also have same right to speak as right to education is every one's right.

TASK B

Design a poster to communicate any one of the situations described in Task A.

You may use colours to emphasize the message.

(10 marks)



Q3. Complete the following incomplete scribbles using not more than three lines (straight or curved) for each scribble. Give a single-word title for each. (3 x 5 = 15 marks)



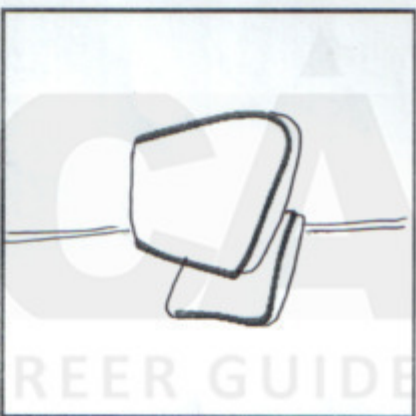
a. Hand Pump-pomp



b. Tea Cup



c. Surprise

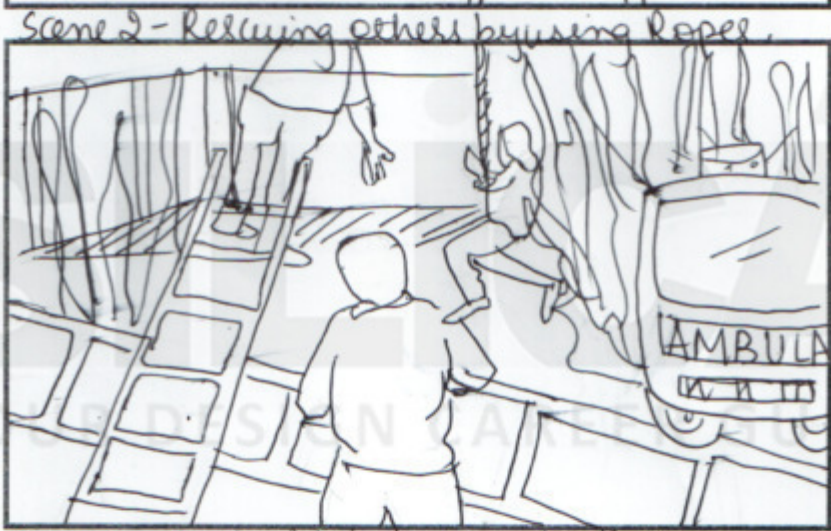


d. Bread Slice



e. Lemons

Q4. Suppose you are trapped in a building and fire broke out. How will you save yourself and others? Visualise it in 3 frames, given below. (5 x 3 = 15 marks)



Q5. In the ruled space below, write a story which includes the sensory attributes/qualities associated with any four of the objects printed below. (10 marks)

Note:

- The objects may appear in any order in the story.



Title - "LOUD SUNDAY WITH DASH OF SCREAMS"

On a Sunday afternoon, it was winter I invited my 2 best friends music & light. I enjoy their company so we planned to have tomato soup together which smelled (Nose-smell-soup) really good. My tummy was making sounds as it smelled delicious. It was cold breeze with a dash of light as it was winter (See-light) & a light music was playing next to my room is my neighbour's house (Sound-hear). I like to play music & instruments thus I had my hands on old drums (Touch-tactile). I was so lost in playing with the music, my all neighbours kept knocking my door & I thought they were also playing with me but they were screaming & shouting to stop it.

Part-II: Domain Specific Test

(Industrial Design)

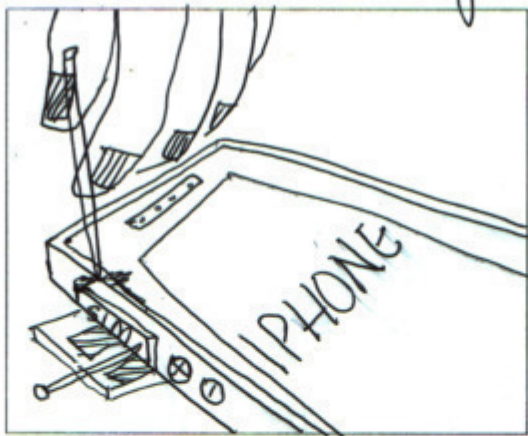
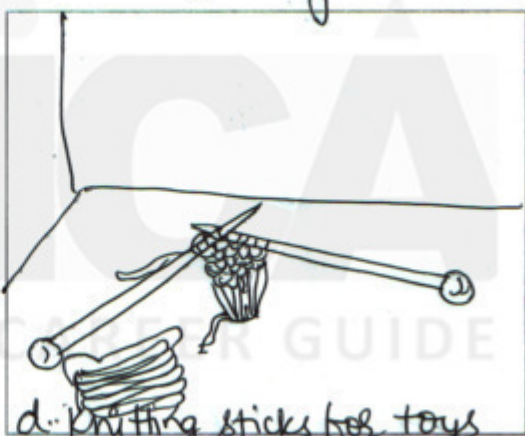
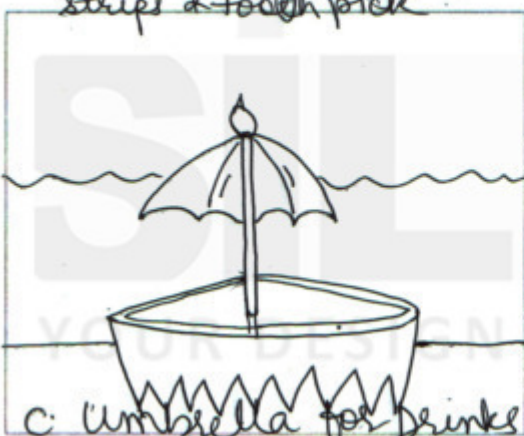
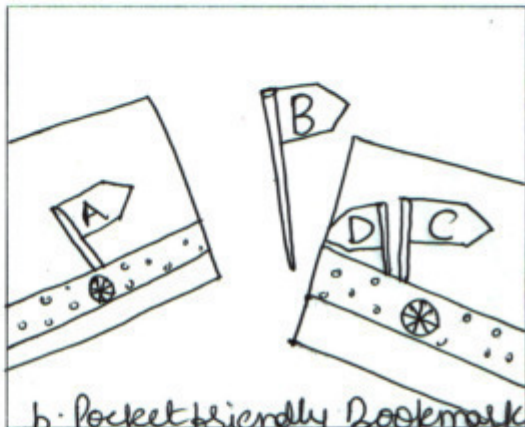
YOUR DESIGN CAREER GUIDE

Questions 1 to 6 are of subjective type. Do not write your name anywhere in the booklet. This will lead to disqualification.

Q1. In the boxes provided below, draw 5 different uses (other than its intended use) for **one** of the following objects: (10 marks)

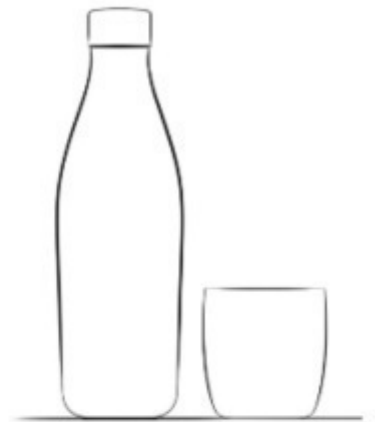
a) Bottle cap

b) Toothpick ✓

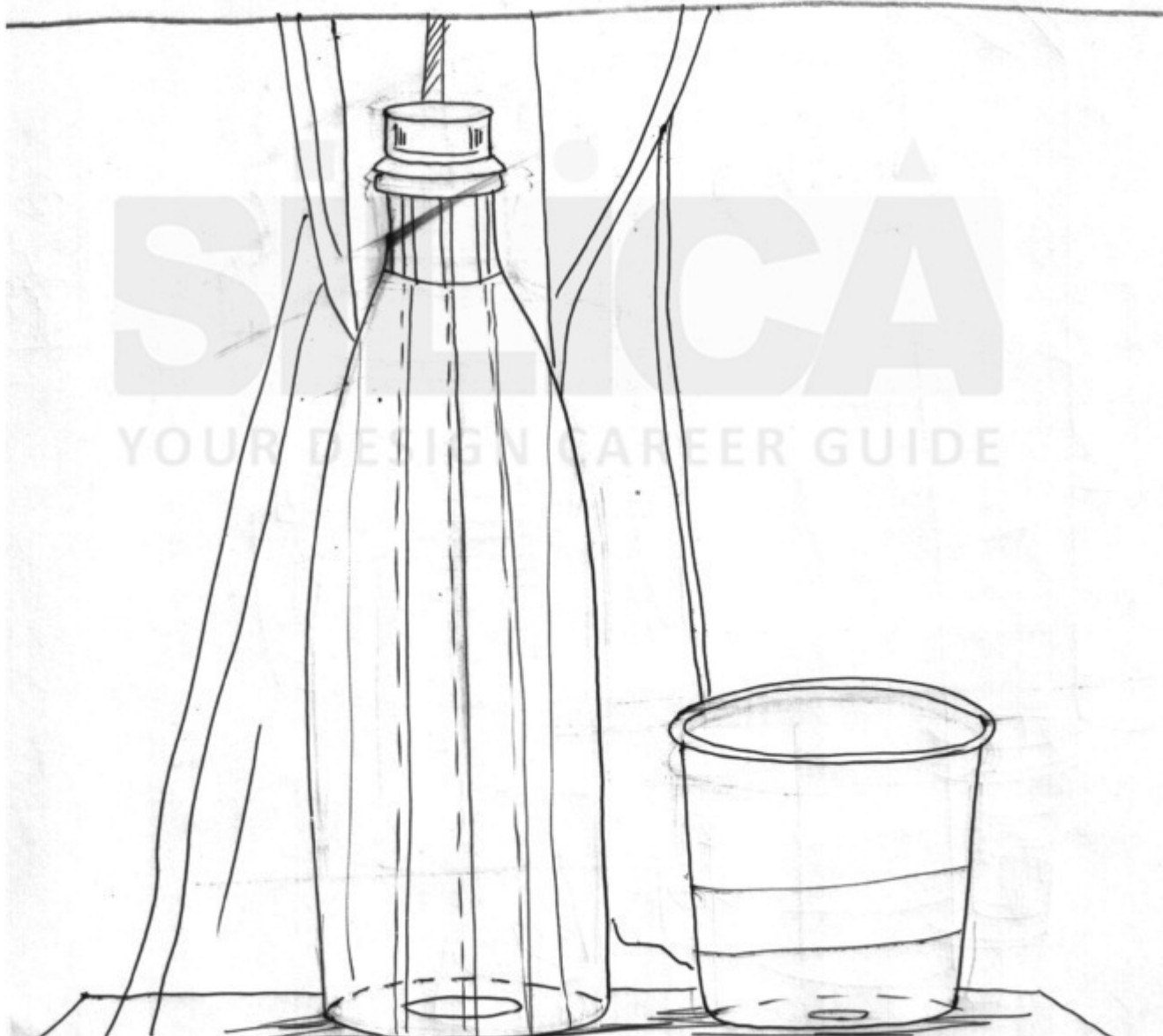


Q2 a) Draw the 3D view of the image shown.

(5 marks)



Space for task a:



b) Imagine that the object A shrinks to half its size and object B enlarges to twice its size (A. Water bottle, B. Glass). (5 marks)

Draw them in 3D view.

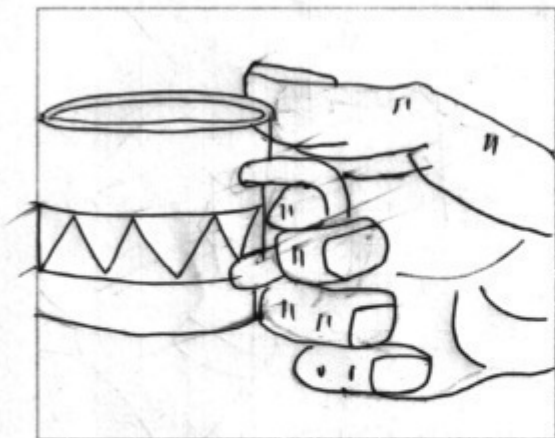
Space for task b:



Q3.

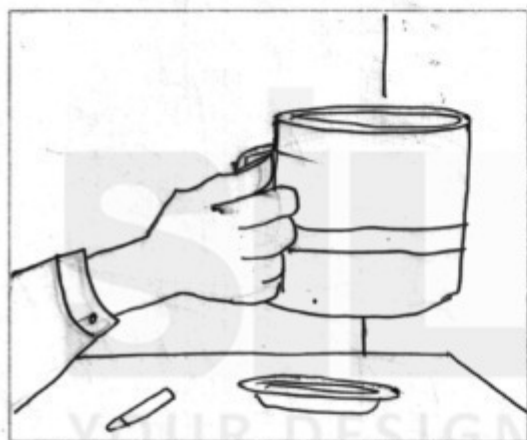
Imagine a person drinking a hot beverage from a mug. Depict through sketches 5 problems faced by the person during this task. Describe in words the problem depicted.

(10 marks)



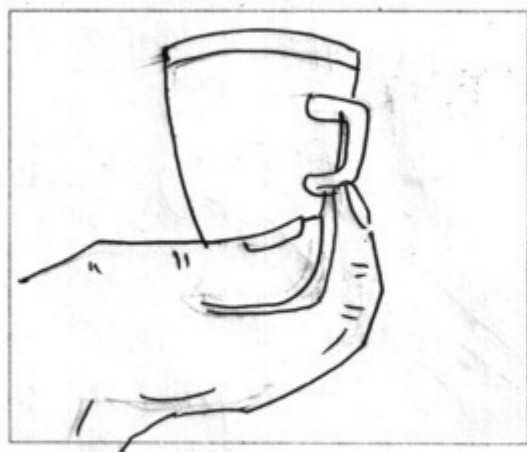
a. Becomes too hot
(if made of steel or ceramic)

The glass material, steel or
ceramic becomes way hot
when it has hot liquid
inside & becomes diffi-
cult too to carry it



b. Have to hold with
thumb & two fingers only.

It has only one handle
only so tedious task is
to hold with 2 fingers &
a thumb only. Can't use
another hand to hold it
as it's hot from outside



c. Becomes too heavy with
beverage inside.

Sometimes it becomes
heavy when liquid is
poured & gives strain
on fingers & there are
chances that it becomes
too heavy



d. Too hot gives boils on tongue & lips -

Because of being hot you can't judge when to sip it up. It gives you boils at times.



e. It breaks sometimes while drinking -

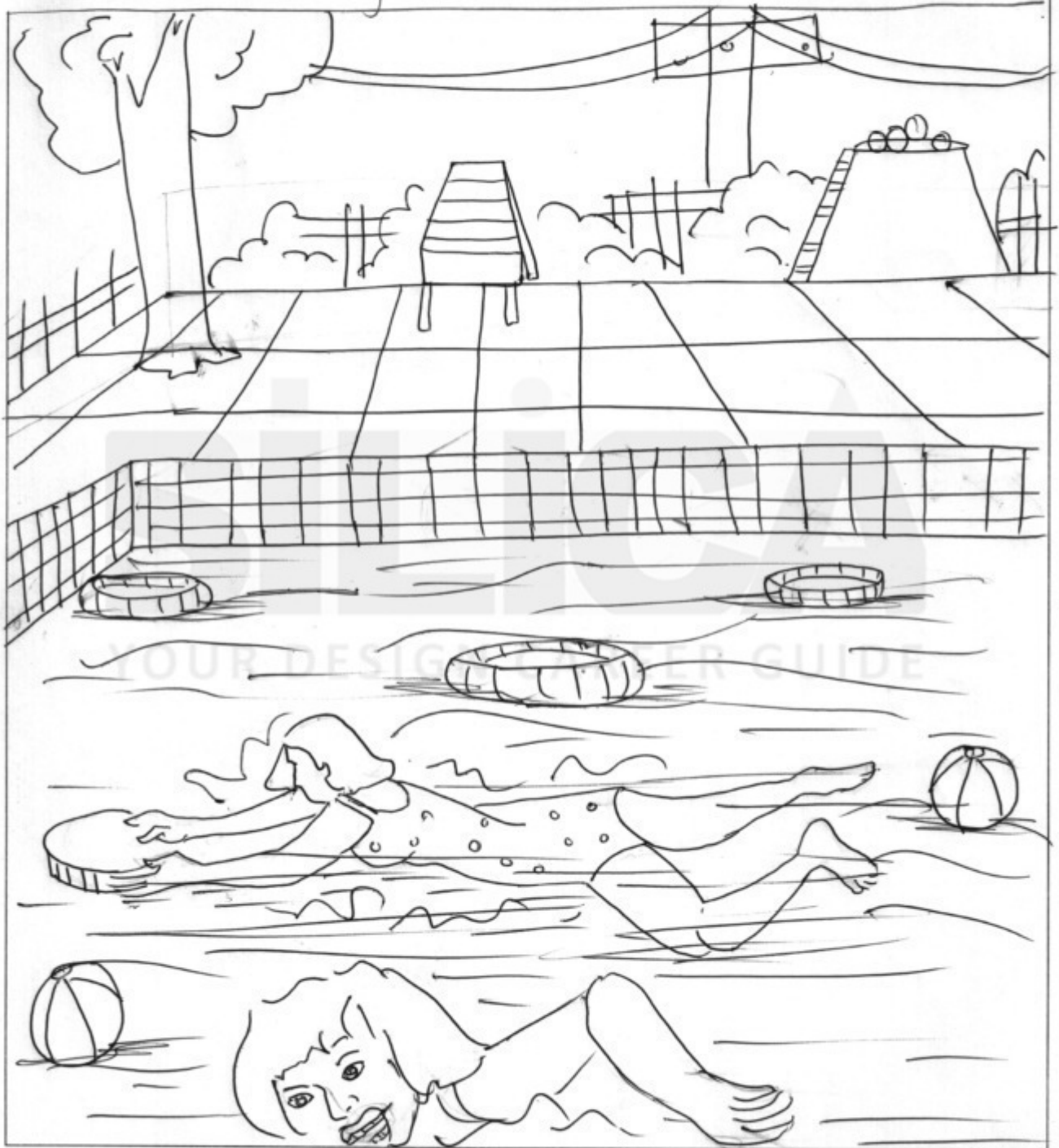
Because of being of different material & when hot liquid is poured it does not break instantly but while holding there's a chance of breaking.

YOUR DESIGN CAREER GUIDE

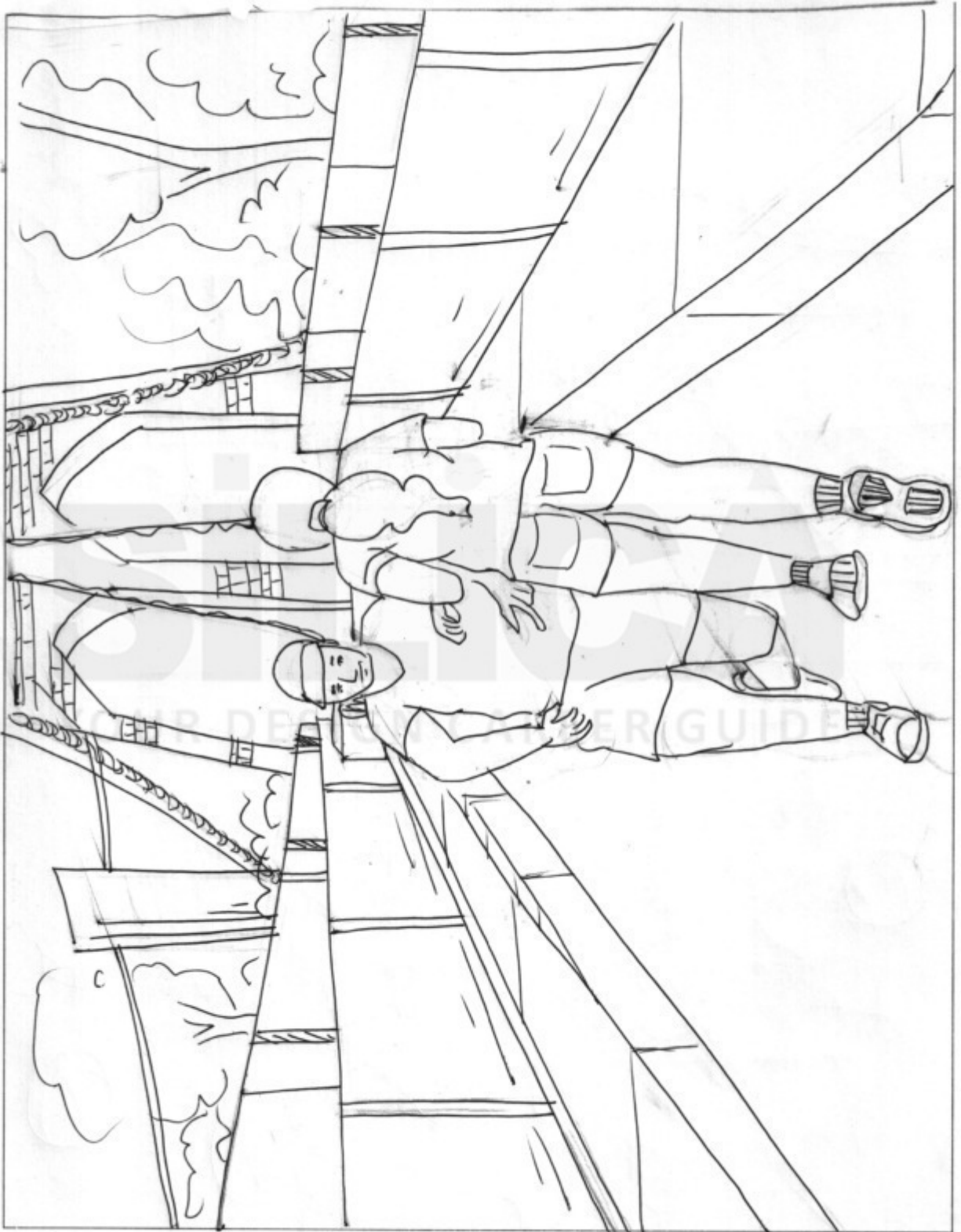
Q4. Give 2 original solutions that would help you wake up without the possibility of you falling back to sleep. (15 marks)

In the space provided below, sketch the 2 solutions you have proposed communicating how they achieve their goal.

Solution 1: *Swimming*



Solution 2: *Jogging*



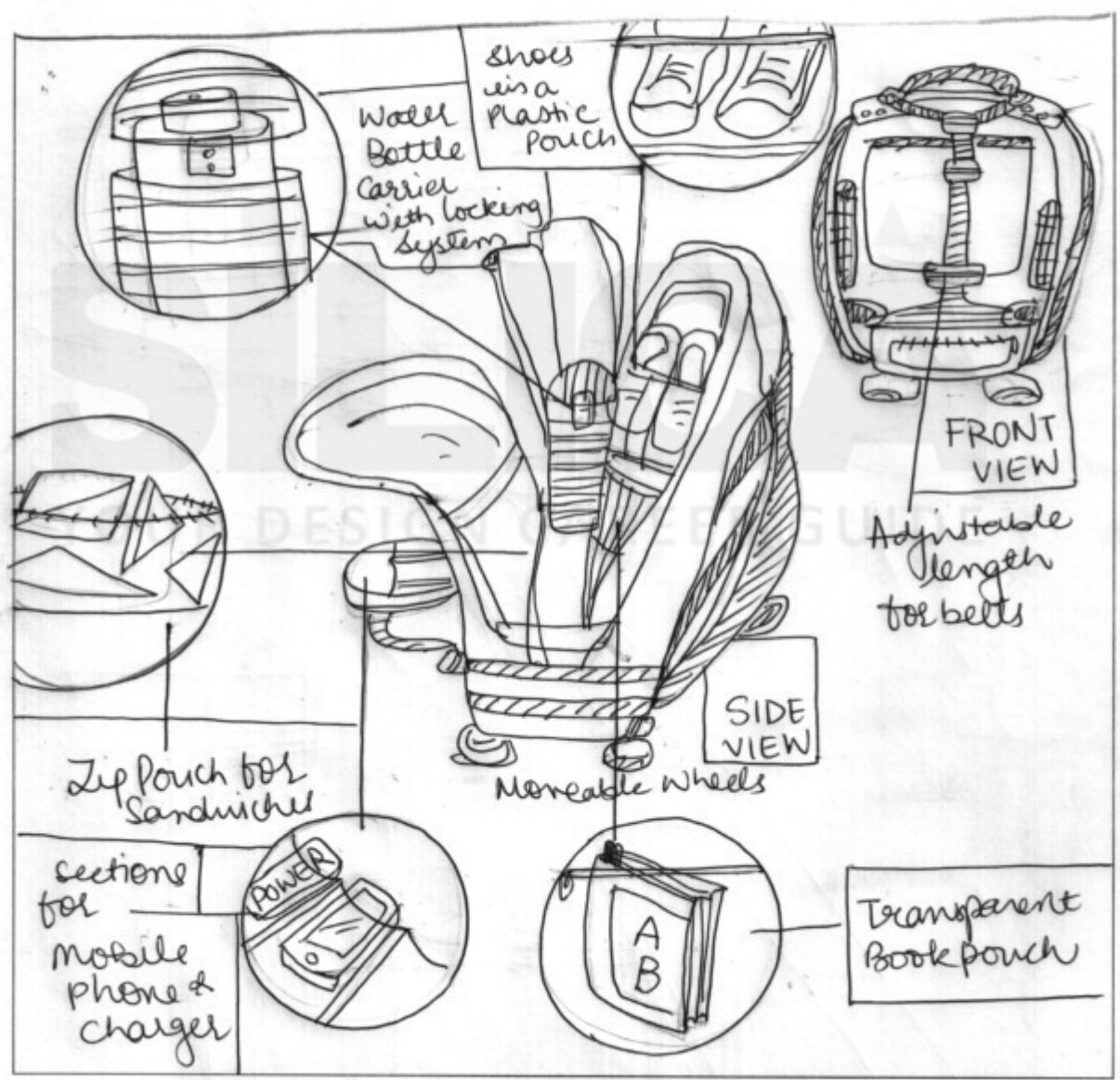
Q5. For an outdoor trek that you are planning, you need to carry the following objects: water bottle, sandwich, book, mobile phone, pair of shoes. Design a product to enable you to accommodate and carry all these items in it together. (25 marks)

In the spaces provided below –

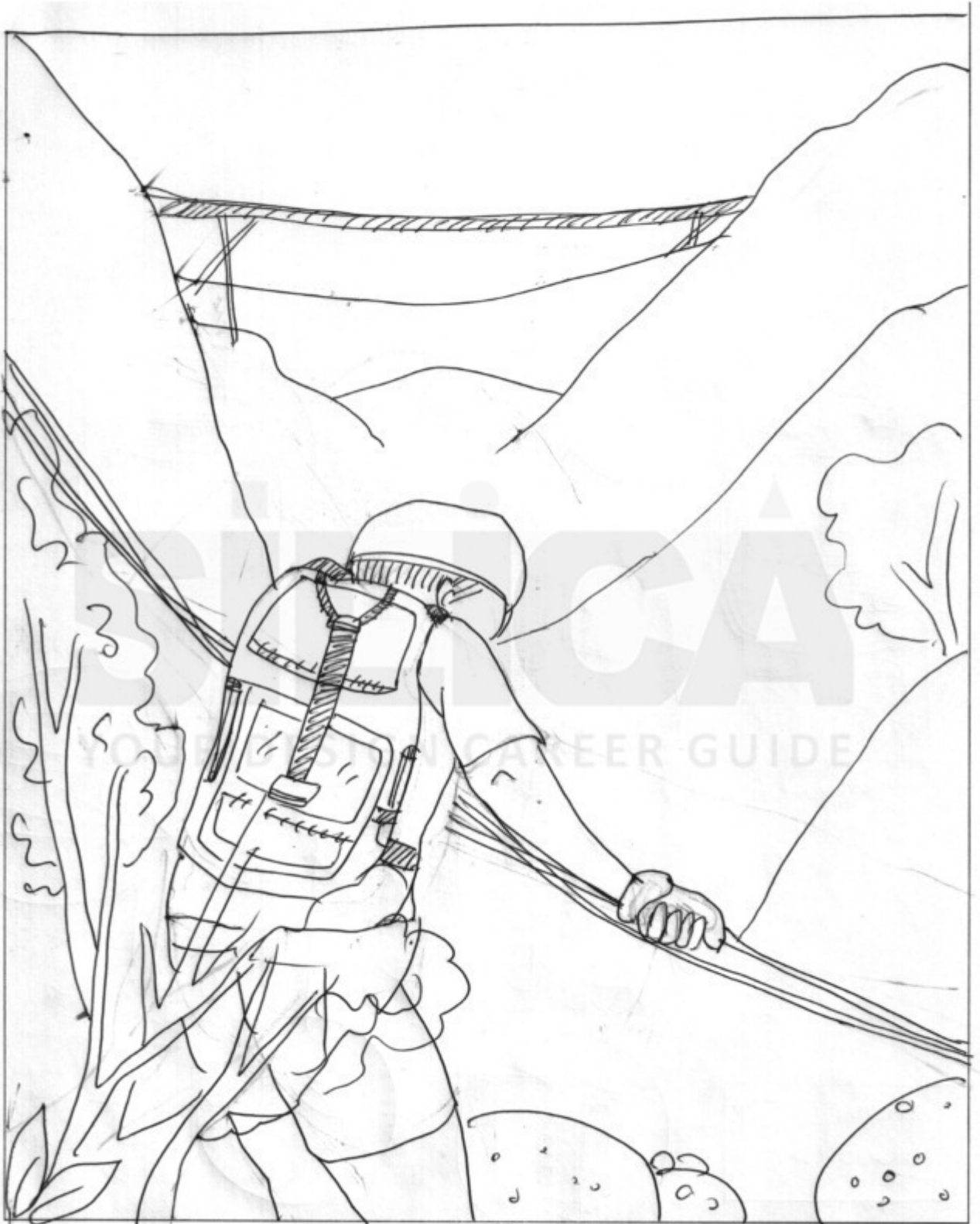
- A. Make a realistic drawing of the product you have designed, showing relevant details.
- B. Draw a realistic sketch of the product in use.

In your sketches indicate the product's main features with labels.

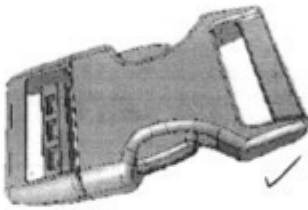

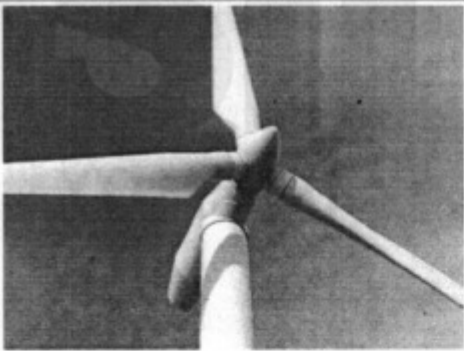

Space for task A:



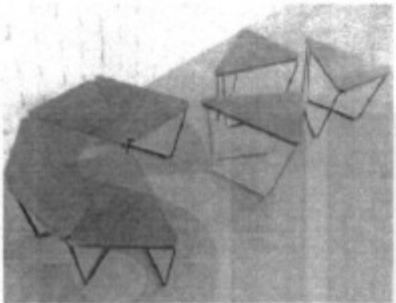




Space for task B:



Q6. Associate entities in Column 2 with the correct entities in Column 1 by making entries in Column 3 following the example shown. (5 marks)

Column 1	Column 2	Answer column
1. (example) Taj Mahal	A. 	(example) B
2. 	B. (example) Marble ✓	F
3. 	C. 	I
4. Surgery	D. Modular ✓	H
5. Eames	E. Motor skill development ✓	C
6. Snap fit	F. Slip-casting ✓	J

Column 1	Column 2	Answer column
<p>7.</p> 	<p>I.  ✓</p>	<p>K</p>
<p>8. Bearing/Friction</p>	<p>H. Electricity ✓</p>	<p>A</p>
<p>9.</p> 	<p>J.  ✓</p>	<p>D</p>
<p>10.</p> 	<p>K. Graphene ✓</p>	<p>E</p>

Part-II: Domain Specific Test

(Textile, Apparel, Lifestyle and Accessory Design)

YOUR DESIGN CAREER GUIDE

Questions 1 to 7 are of subjective type. Do not write your name anywhere in the booklet. This will lead to disqualification.

Q1. Give your interpretation of the image below and give an appropriate proverb for it.

(5 marks)



Interpretation

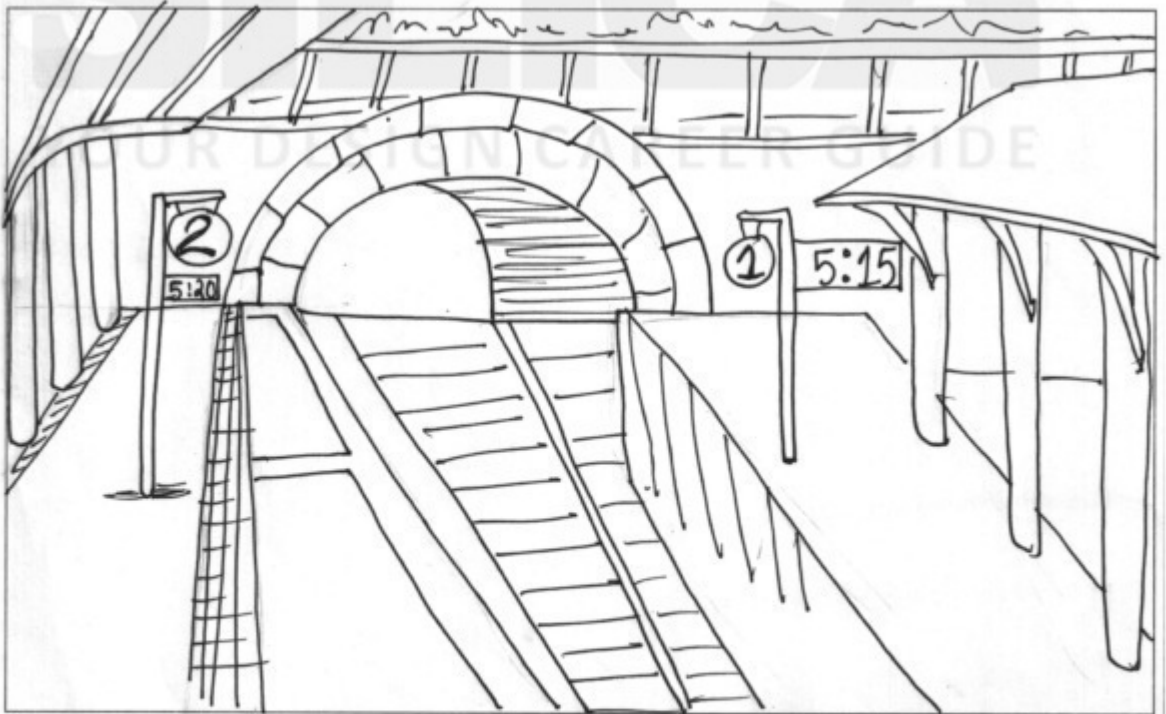
This image shows the climate change. It occurs when changes in earth's climate system result in new weather patterns that remain in place for an extended period of time. This picture shows that we are running out of time. It is causing global warming & which has a number of effects on the oceans. Increasing sea levels due to thermal expansion & melting of glaciers & ice sheets & warming of the ocean surface, leading to stratified temperature stratification.

"Global warming is burning the earth of today & future of tomorrow!"

Q2. Sketch and explain two concepts on enhancing the user experience in the context of the image given below. (15 marks)



Concept 1



Concept 2



Concept 1

Improving schedule & departures -

For the user, the simplification & separation means that they only need to locate one platform, keeping the experience simple & clear. They should be given a clear track towards which platform to board. Eliminating the need to look at departure boards. No last minute platform changes can confuse the travellers & notate train running.

Concept 2

one way - Mobility service

To improve the user experience on a busy crowded railway station is to improve the mobility. There should be one way for getting in & other to exit the station. Travellers use the same path to get in & out which creates a lot of fuss. There should be a bridge to get in & stairs / path to go out.

Business Idea 1

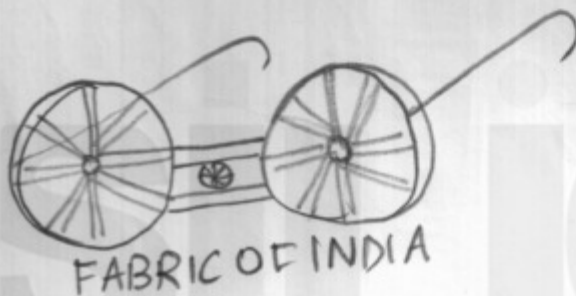
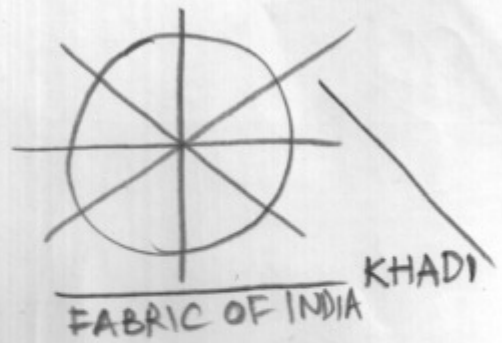
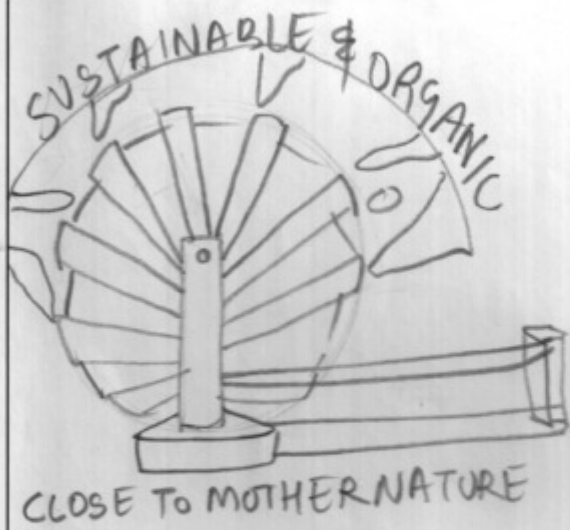
Marketing & connecting everyone with the Mother Nature. People can be connected to sustainable & organic design ethos. Khadi can be in everyone's wardrobe. It's a statement of luxury, organic way of life & being close to Mother Nature. Easy to catch sentiments of customers by introducing a global trend of Khadi as "close to nature, No harm to future".

Business Idea 2

Today's youth is aware about current's climate scenario & the idea to adopt more natural & organic items. Making it to the more demands of today's customers as conceptually desirable & fashionable to push Indian connect as well as for modern youth. Connecting with youth with new fashion & self reliance that Khadi has can make it a national & global trend - introducing as "Fashionable but self reliant".

Business Idea 3

Introducing as statement of luxury - introducing the ancient fabric of India at the time of Mahatma Gandhi. It will help in economic growth of the country by introducing it as luxurious item. Khadi's demand can be recreated by introducing small steps like Khadi bedrolls & towels at economical rates in the retail market.



GUIDELINES-

- think of Quirky visuals & taglines
- Visual can be direct or abstract
- Visual should support the message / Business Idea.
- Use logo of Khadi brand to bring awareness
- Add maximum details with minimum text / Image.

TIPS-

- Add details of the add - Banner / Hoarding / poster.
- Visual & text should balance each other.
- think of Quirky tagline to make it eye catchy.

Q3B. Represent any one idea proposed in Q3A through an advertisement for an international magazine in the space given below. (4 marks)

A hand-drawn advertisement for a fashion event. The text is arranged as follows:

- Top left: "FASHION MELA" in a simple, blocky font.
- Below it: "FOODO JUDO" in a similar font.
- Center: "Khadadi" written in a large, stylized, cursive script. To the left of the word is a small drawing of a traditional spinning wheel.
- Below "Khadadi": "FABRIC OF INDIA" in a smaller, simple font.
- Bottom center: "KHADI FOR NATION, KHADI FOR FASHION" in a simple font.
- Bottom right: "VOGUE KNITTING" in a simple font.
- Far right: "OCTOBER 2019" written vertically in a simple font.

Q4. Consider IKEA a global brand that is planning to launch their retail outlets in four Indian cities namely Somnath, Madurai, Amritsar and Varanasi.

A) List the factors to be considered for launching it in each of these cities. (4 marks)

Somnath

- Easy to use / Handy
- Simple & less market view
- Outlet stores - small / one-shop-stop outlets
- Cultural & Beliefs
- Quick response (-in / out of market)

Madurai

- Industrial Intervention
- variety of products
- Working & luxury
- Treatment to cultural facts
- Indigenous variety & motifs

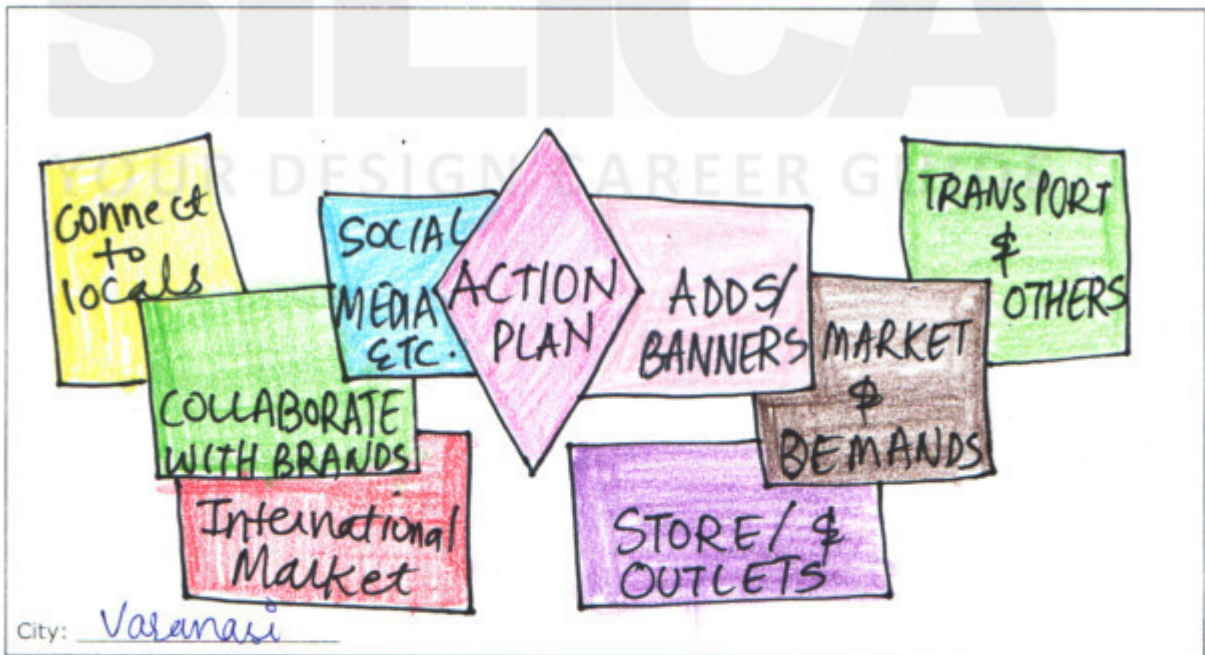
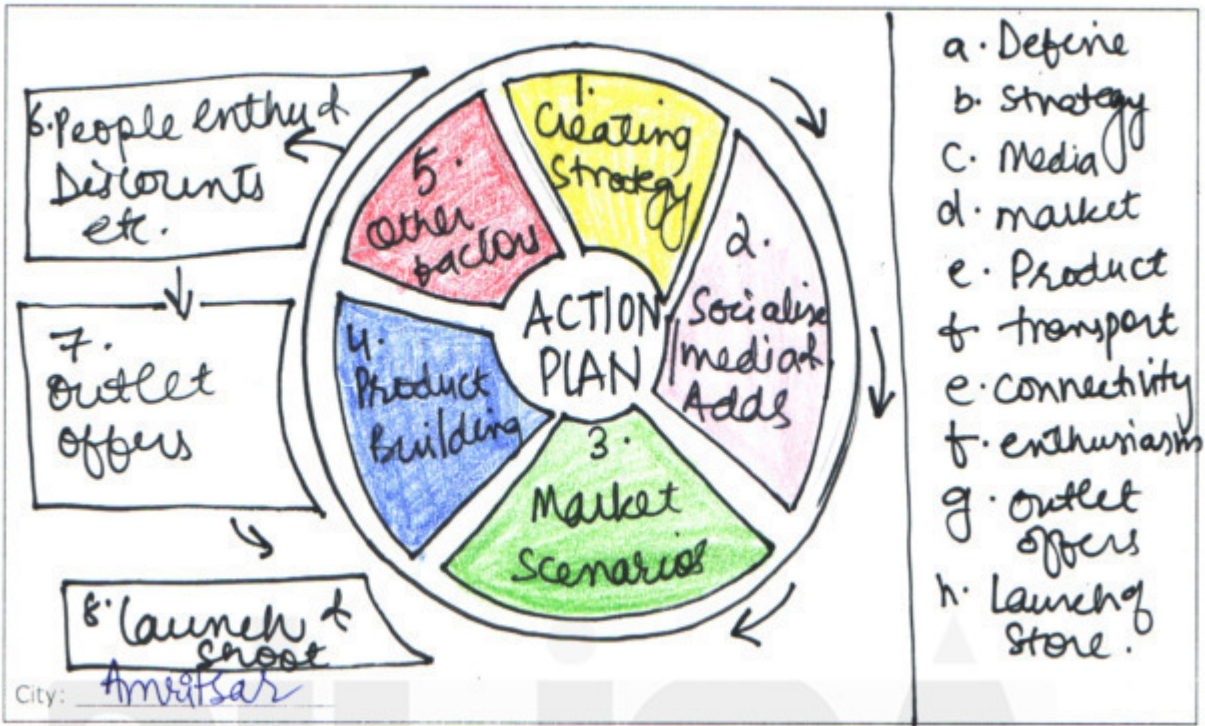
Amritsar

- online / E-Commerce Platform
- People enthusiasm
- Transportation
- Sales potential & Connectivity
- Presence of competitors

Varanasi

- Transportation of Goods
- Supply vs demand
- People - Drive in locations
- store outlets
- Introducing International Brands

B) For any of the two cities in Q4 (A) represent the launching plan through a diagram for IKEA to implement. (6 marks)



Q5. Create a story that can be represented by any of the twelve icons given below.



TASK A

In the 12 boxes, draw the icons in the sequence of the story

(6 marks)



TASK B

Write your story below.

(9 marks)

We, a family of four, living in a small town. My Father is the only bread earner and he works really hard. But that's not enough for four of us even if he works hard but as he sells ice cream he makes our day & night sweet & cheerful. One day the place where he used to park his Ice cream Cart out of a small shop asked him to have a small counter near the bakery counter. I got an idea when he shared the shop keepers message to the whole family. I told him lets share this on social media and bring a new platform to buy ice creams online by paying it x COD or buying from store itself. This will spread & connect us with lots of customers & make more clients pour in to the store. By doing this he will not only get good & new customers but also bring sweetness, sharing & love in their lives among each other. And, he started getting orders from far we hired staff for delivering the sweetness & became a world wide famous store.

Q6. Below is an image of shopping cart. Draw a family consisting of a father, a mother and 2 children under 10 years of age selecting products from a display rack, with reference to the given image. (10 marks)



Q7. Describe the business potential of a corporate company to launch a pressure cooker specifically designed for Below Poverty Line people.

(10 marks)

Our Economy is growing but still there are 23.6% approx people that are living below poverty line & becomes difficult for an Economy or a Corporate to launch their products at similar Rates/Quality & with other factors. There are many govt. schemes of India to indicate the need of govt. assistance & aid.

- a) Price - The company can't launch the cookers at the same price may be the Quantity i.e. 1L/3L/5L can be changed or reduced to acquire more of local Market.
- b) Quality - Focusing on good Quality with minimum or no loss no profit amount to acquire real good market.
- c) Sustainable opportunities - Packaging of the products can be reused by the household for any daily work purpose. This will help them save, utilize & build trust among such Corporate Companies.

Part-II: Domain Specific Test

(Textile, Apparel, Lifestyle and Accessory Design)

YOUR DESIGN CAREER GUIDE

Question Nos. 1 to 6 carries 1 marks each

Q1. Identify the symbol and mention the country this belongs to or where this was designed.



Answer: Craftmark, India
Established in 2006, for
genuine Indian handcrafted
products.

Q2. "His or Her understanding of material is combined with mastery of the tools, techniques and processes that have evolved over the centuries through social and cultural interactions." - (Handmade in India, by Aditi Ranjan & M P Ranjan). Who does "his or her" refer to in the quote above?

Answer: Author - Aditi Ranjan
MP Ranjan

Q3. From the list below, identify the fiber that does not come under the category of 'Bast fibers'.

- (A) Jute (B) Okra
(C) Banana (D) Milkweed ✓

Q4. Choose the correct option. The "new aesthetics" is:

- a) deconstruction as termed by J. Derrida
b) order of things by Michel Foucault
c) blending of virtual and physical by James Bridle ✓
d) Reasoned judgment by Emmanuel Kant

Q5. Identify the artist and the title of the image.



Answer: Fountain by Marcel
Duchamp in 1917. (Porcelain)

Q6. Only textile products that contain a minimum of 70% organic fibers can become _____ certified. All chemical inputs such as dyestuffs and auxiliaries used must meet certain environmental and toxicological criteria. The choice of accessories is limited in accordance with ecological aspects as well. A functional waste water treatment plant is mandatory for any wet-processing unit involved and all processors must comply with social criteria. The key criteria of certification are, its quality assurance system and the principles of the review and revision procedure.

Question Nos. 7 to 9 carries 2 marks each

Q7. You are a handbag manufacturer having a turn over of less than Rs.10,00,000/- and selling products in more than states. Would the GST number apply in this scenario?
Circle the correct answer.

Yes / No ✓

Q.8 Associate entities in Column 2 with the correct entities in Column 1 by making entries in Column 3 following the example shown.

Column 1	Column 2	Answer Column
1. (example) Taj Mahal	A. Leading trade fair for home textile	(example) B
2. VITUS 3D Scanner	B. (example) Marble	E
3. Pantone	C. Trend forecasting company code	D
4. WGSN	D. a system for matching colour with	C
5. Heimtextil	E. Sizing	A

Q9. How does 'Waterless Dyeing Method' work? Describe the impact of it on any specific design

It is the process by which dyeing is performed without water. It is the process that uses no water & requires less energy than traditional methods of dyeing while still achieving impressive colors on solids & prints. Requires less process, time, chemicals & auxiliaries.

DYECO - It enabled the textile industry to have environmentally sustainable operations by reducing the amount of water & energy consumed during dyeing process & lowered the amount of CO₂ emitted & waste generated.

Question No. 10 carries 3 marks.

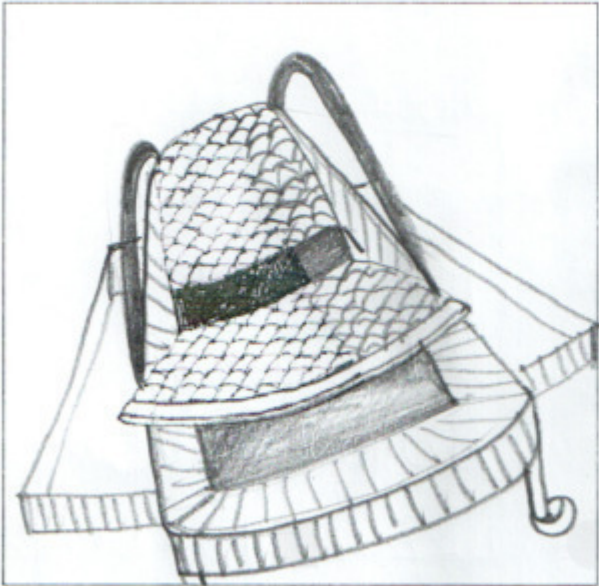
Q10. "Biomimicry brings nature and technology together to create exciting new materials that are smarter and more sustainable".

Explain with 3 examples of innovative materials that are inspired by biomimicry.

1. Lotus effect in textiles - When water falls over a normal fabric, it spreads over the fabric surface by making it wet. On the contrary, a drop of water on the surface treated fabric will remain as such, and roll down when tilted. The drop is not absorbed by the fabric.
2. Spiders & silk worm silks - Silk fibres produced by silk worms & spiders are classical examples of natural fibres with remarkable properties such as high tensile strength & stretchability. A Japanese company Spiber, which uses natural silk fibres & are stronger than Kevlar.
3. Velcro - It is one of the most useful materials to hold two things together & the idea for Velcro is inspired through biomimicry. Burs that come off certain plants stick to clothing & animal fur & it's very irritating. George de Mestral, saw that they could be used by this technology.

Question Nos. 11 to 14 carries 15 marks each

Q11. Observe the drawings. Complete the drawing in each space such that the three completed drawings are distinct from each other. Below each drawing give a title to communicate what it depicts.



Title: Babyhug brand basket cover.



Title: Basket for household purpose.

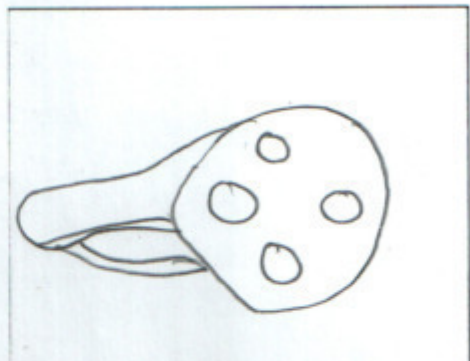


Title: Hat for any age group.

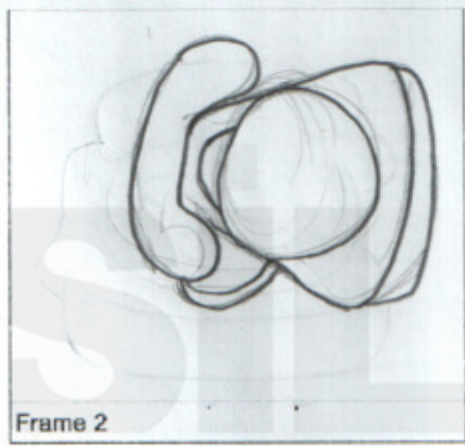
Q12. Study the images provided in frame 1 and frame 5. Establish a connection between the two by drawing a series of transformations from one to the other in the frames 2, 3 and 4.



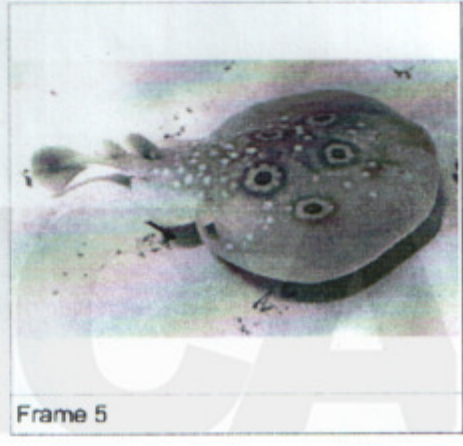
Frame 1



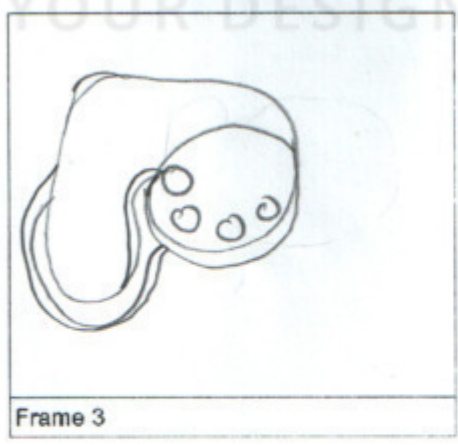
Frame 4



Frame 2



Frame 5



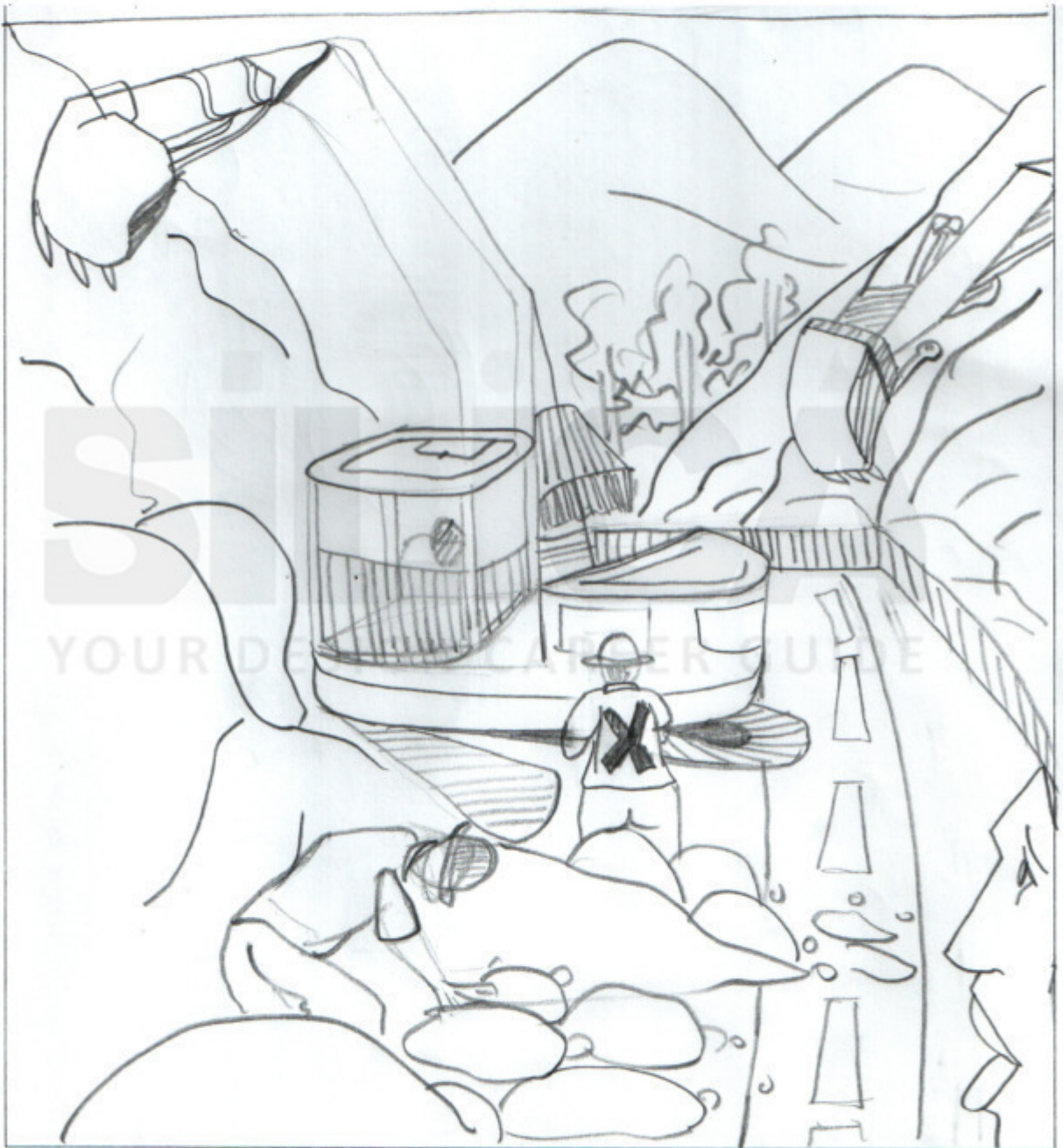
Frame 3

P.S - Add & Remove lines (Metamorphosis)

- Q13. A Highway is being converted into four lanes, where rocks are being cut down to make it plain land and to widen the road. Civil construction workers at the site are constantly showered by flakes of rocks and rocky sand under harsh sunlight.
- (a) Visually represent the scenario.
 - (b) Suggest 2 solutions that address the issues.

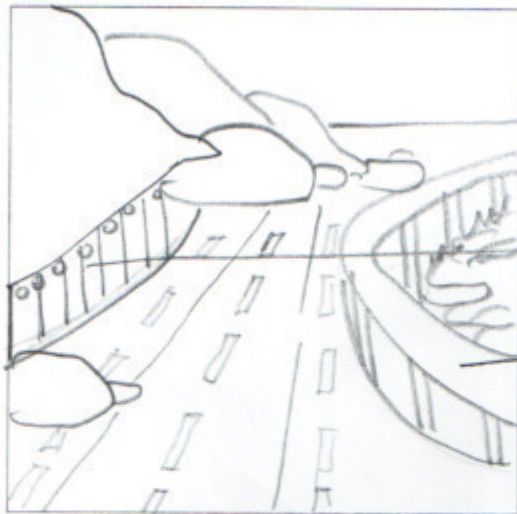
TASK A (5 marks)

Visually represent the scenario.



TASK B (10 marks)

Suggest 2 solutions that address the issues.

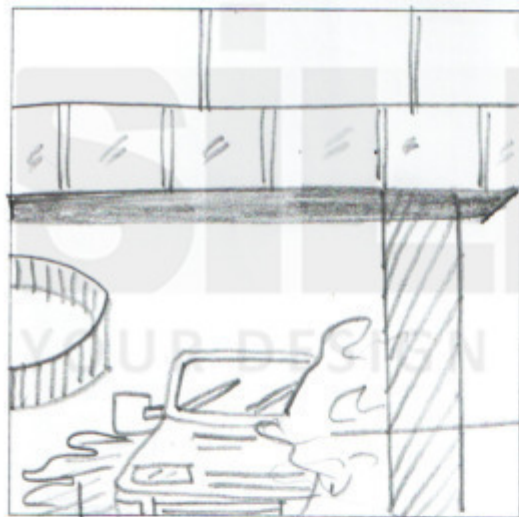


(adding a wall of marbles) joined with nails

(adding iron Pillars or cement/bricks)

Problem - sliding of rocks

Caption: Adding Barriers at the edges.



(Water splash)

Problem - Slippery roads because of rain / water on roads

Caption: Adding Cement / mud on to the highway to the restriction area.

(Cement to make it dry & less slippery)

Q14. Study the paragraph and the image given on the adjacent page carefully and share your understanding of the concepts expressed in both in form of a model that communicates a balance between both the text and the image.

Part A:

*The history of the concept of Sarvodaya in the modern era begins with English social philosopher John Ruskin. In 1860, Ruskin wrote a series of essays that criticized the capitalist system because it created a hierarchical social structure, hyper-competitive culture, mechanical worldview, and undermined the dignity of labor. As an alternative, he suggested building economic systems that facilitate fair wages, meaningful work, and which would focus on enabling the least powerful, not the most. He published this collection of essays in 1862 as a book, entitled *Unto This Last*.*

While Ruskin provided the framework for Sarvodaya philosophy, the term/concept was coined by, Gandhiji. It is a comprehensive, social, economic, political, moral and spiritual philosophy. It was based on three basic principles:

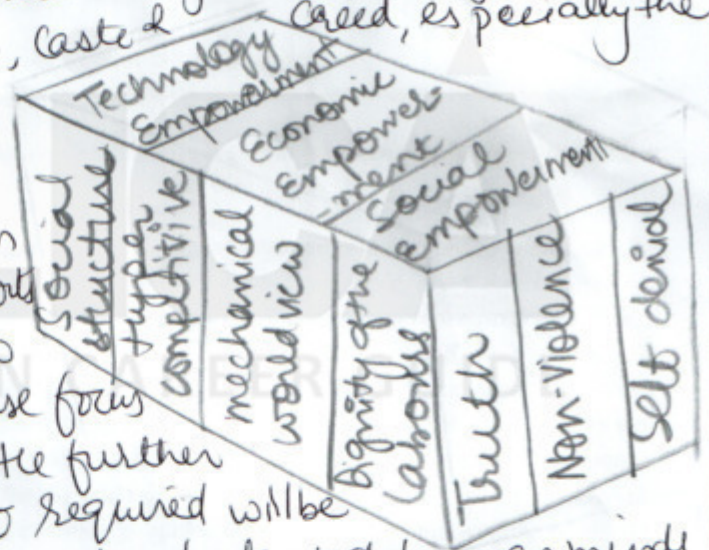
- 1. That the good of the individual is contained in the good of all.*
- 2. That a lawyer's work has the same value as the barber's in as much as all have the same right of earning their livelihood from their work.*
- 3. That is a life of labour, i.e., the life of the tiller of the soil and the handicraftsman is the life worth living.*

Mahatma Gandhi was of the firm view that the earth provides enough to satisfy every man's needs, but not for every man's greed. In the Sarvodaya society of his dream, therefore, every member will be free from any greed for limitless acquisition of material wealth and more and more luxurious living and they will follow the motto of simple living and high thinking. Everyone will, thus, get ample opportunity to produce and earn sufficiently through honest work for decent and dignified living. Consequently there will be no problem of unemployment. Of course, obviously, income of different people may be different, depending on their talent, ability and effort. But those who will earn more will use the bulk of their greater earnings for the good of the society as a whole. In such a society, all wealth, including land, will be assumed as common property to be utilized for the welfare of all. As regards use of machinery in economic activity, Gandhi said that "If we feel the need of machines, we certainly will have them. But there should be no place for machines that concentrate power in a few hands and turn the masses into mere machine-minders, if, indeed, they do not make them unemployed." In order, therefore, to minimize use of machines in a Sarvodaya society, Gandhi strongly advocated that everyone should do some productive physical work at least to earn his/her daily bread as was also advocated by Leo Tolstoy - the great Russian thinker and writer and everyone should uphold the dignity of labour irrespective of the type of honest labour performed by an individual.



Answer

The concept was framed by Mahatma Gandhi after he was influenced by John Ruskin. Ruskin focused on the dignity of the labour that everyone should get the same wage instead of color, caste & Creed, especially the 11th hour labourers.



But, Gandhi's focus on one's ability, talent & efforts of one has the ability to earn more than they use focus on common welfare. He further added that machines it required will be given but why to waste the talent of human minds that are sharp & bold & as a group/team can do wonders. From the image & text given in the question it implies that one should not become machine-minded, Dignity of labour should be upheld - technology & machines can make you slaves but one should use the inherent talent & ability of an individual to make it successful thus can help the nation with Economic & social empowerment.

Part-II: Domain Specific Test

(Information Technology-Integrated Programmes)

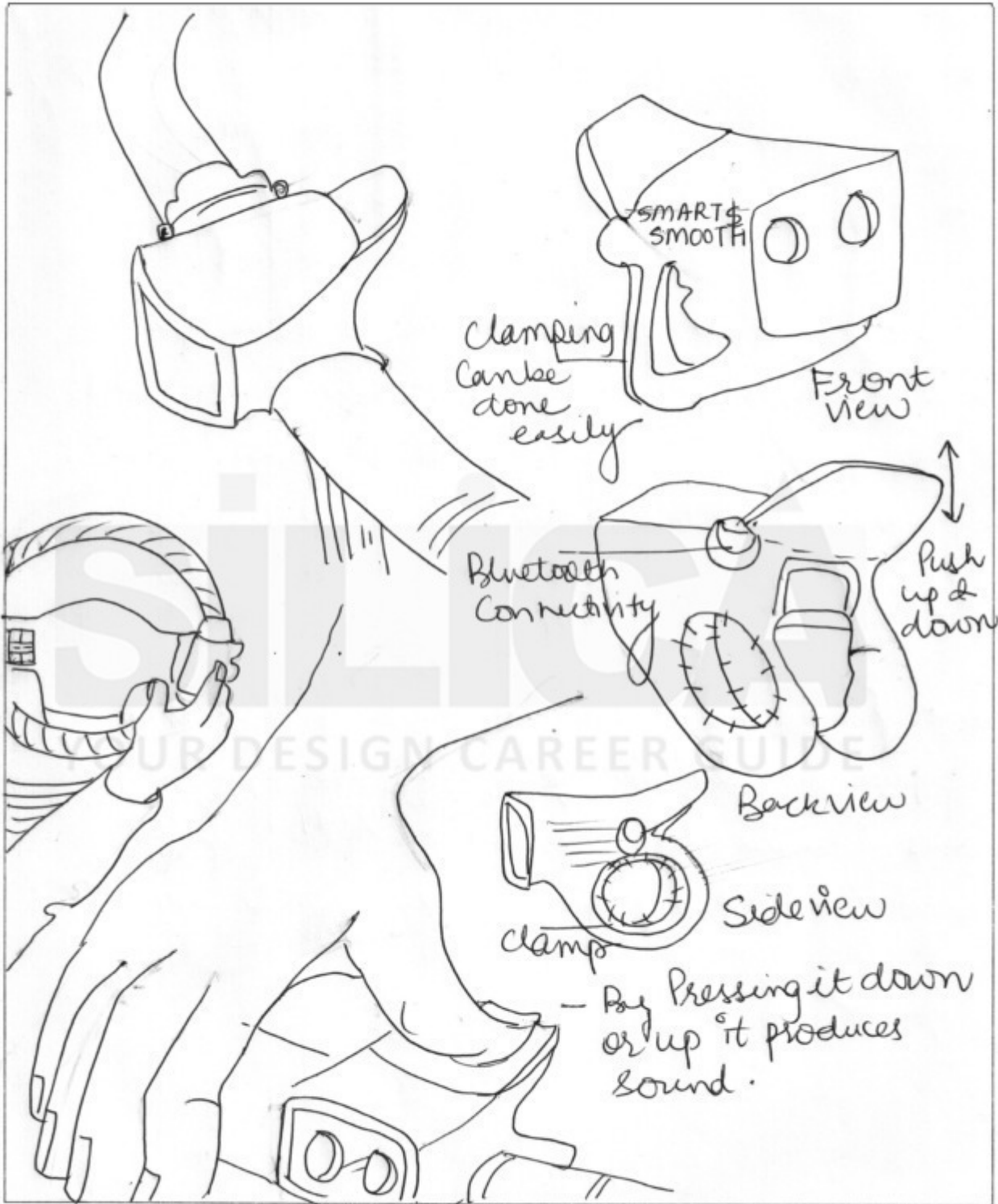
YOUR DESIGN CAREER GUIDE

Questions 1 to 6 are of subjective type. Do not write your name anywhere in the booklet. This will lead to disqualification.

Q1. Construct 3 arguments for who should own the rights to the contents on a social media platform such as Facebook and Instagram, after a person (i.e. account holder) is deceased. What should happen to the deceased individual's account and its contents/assets? (15 marks)

1. Family members can request such social media platforms to remove their loved one's account from Facebook or Instagram. Such requests can be accompanied with either a death certificate, court document confirming birth/death certificate or power of attorney.
2. Just because individual is dead does not mean that we should forget him & the memories with him/her. Facebook or Instagram can help the family & relatives to post & share images/videos & memories with that individual by making a memorial page for near & dear ones.
3. _____
can also request to transfer photos/links/video & other necessary details to the near one - wife/husband/son & daughter etc... If they wish to or otherwise can deactivate the account by giving all the details to the family.

Q2. Fed up with the menace of honking and corresponding noise pollution, the government has made it mandatory to install a 'smart horn' in every vehicle. Imagine and illustrate the concept of smart horn, which may be used in any one of the given cases: 2-wheelers or 4-wheelers or commercial vehicles. (15 marks)



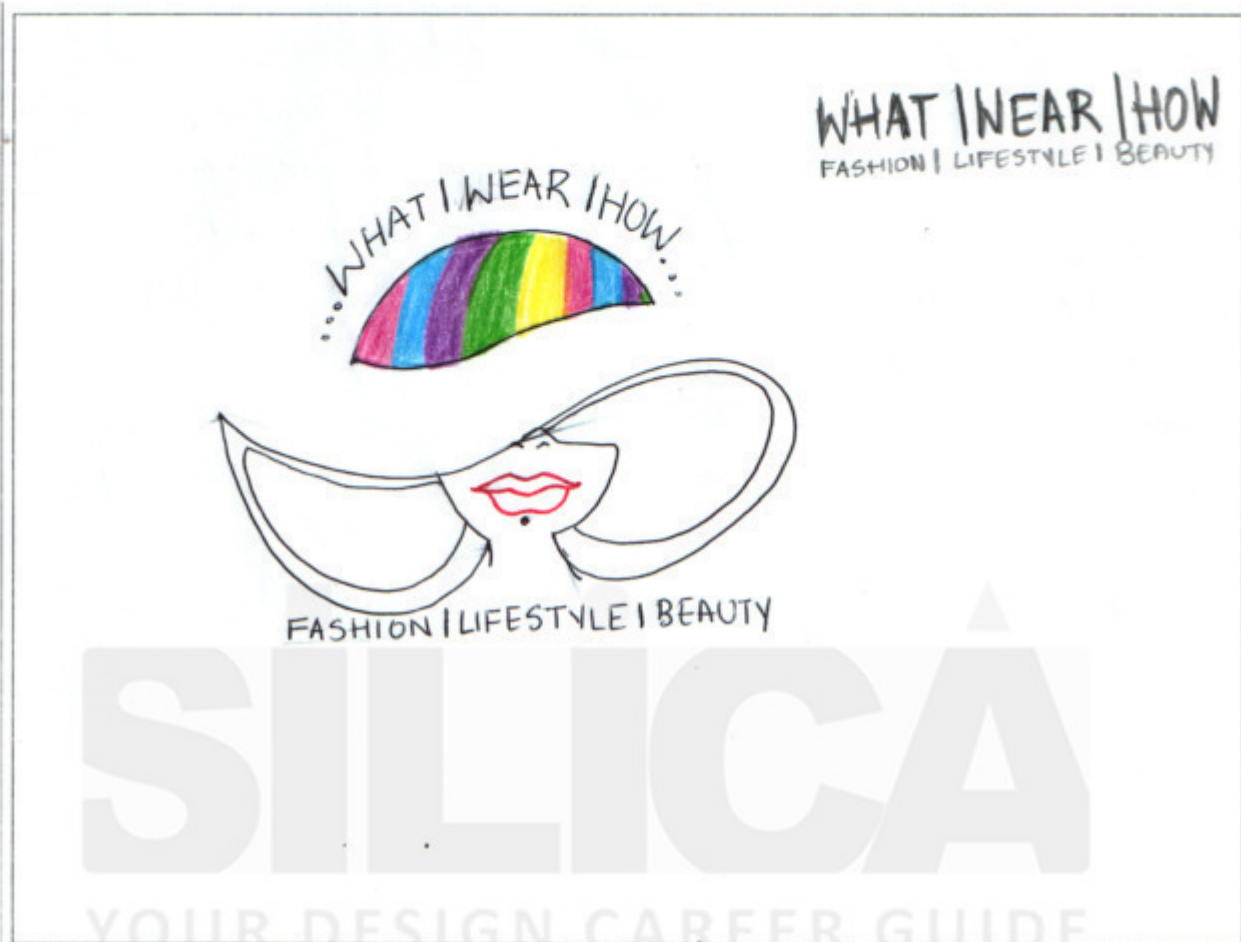
Briefly describe your concept in the space below.

Smart Horn - "TRIMORN"

A Smart Horn has been designed for both 2-4/ Commercial vehicles. These have rechargeable batteries can be easy to use, clamped easily on the handle, has a Bluetooth connectivity for four wheels on the steering. The body is light & made of plastic. If the batteries are low the frontal two LEDs will start blinking or the volume goes down. It can work continuously for more than 8-12 hours a day. If not in use or your vehicle is parked it turns off automatically - Named as "TRIMORN".

SILICA
YOUR DESIGN CAREER GUIDE

Q3. YouTube provides you with an opportunity to create your own online streaming channel. Select a specific topic or theme that you plan to launch (e.g. cooking) and give reasons for your choice. Give your channel an identity by designing a logo and tagline for your channel. (15 marks)

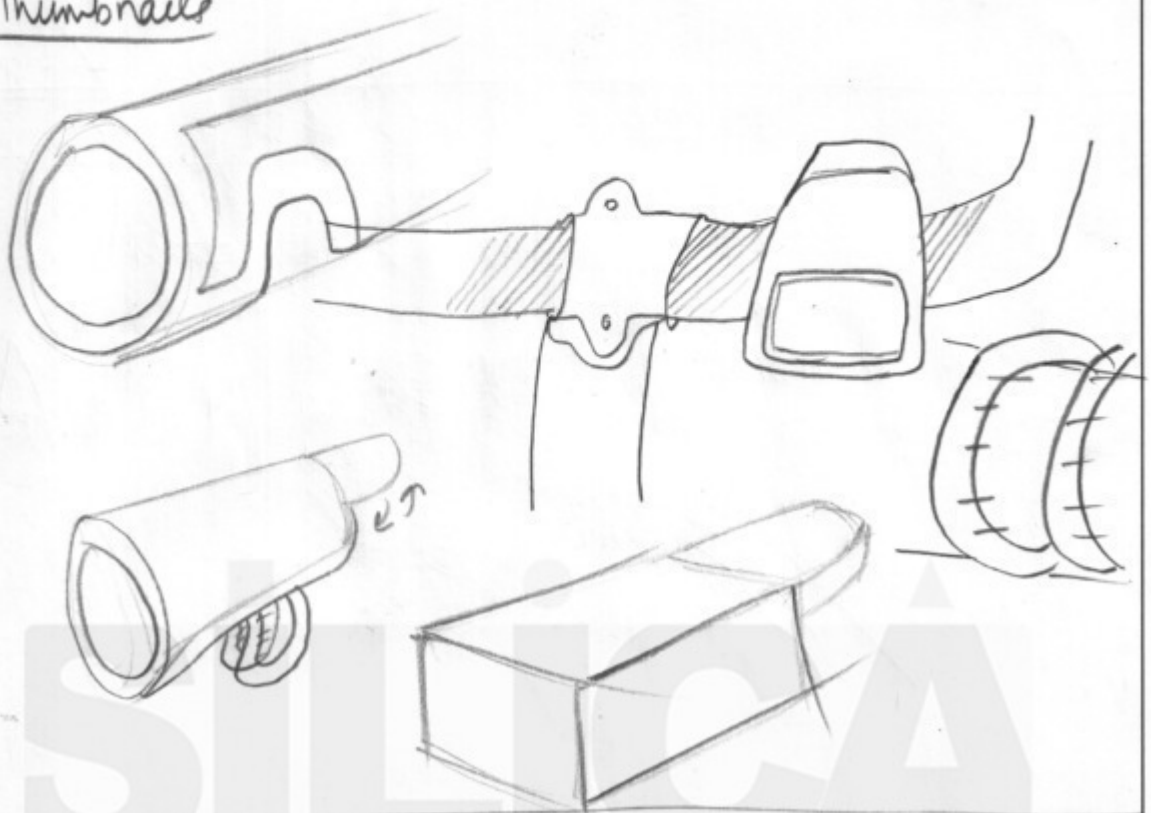


Tagline: "Explore your true style"

Reasons for choice of channel:

Fashion | Beauty | Lifestyle - Our life revolves around this. Beauty is what you appreciate, Fashion is what you make your style & thus it makes it a lifestyle for an individual. I choose this theme because that's how my passion can be linked with every age group & their heart where I can explore & unleash beauty.

Thumbnails



GUIDELINES -

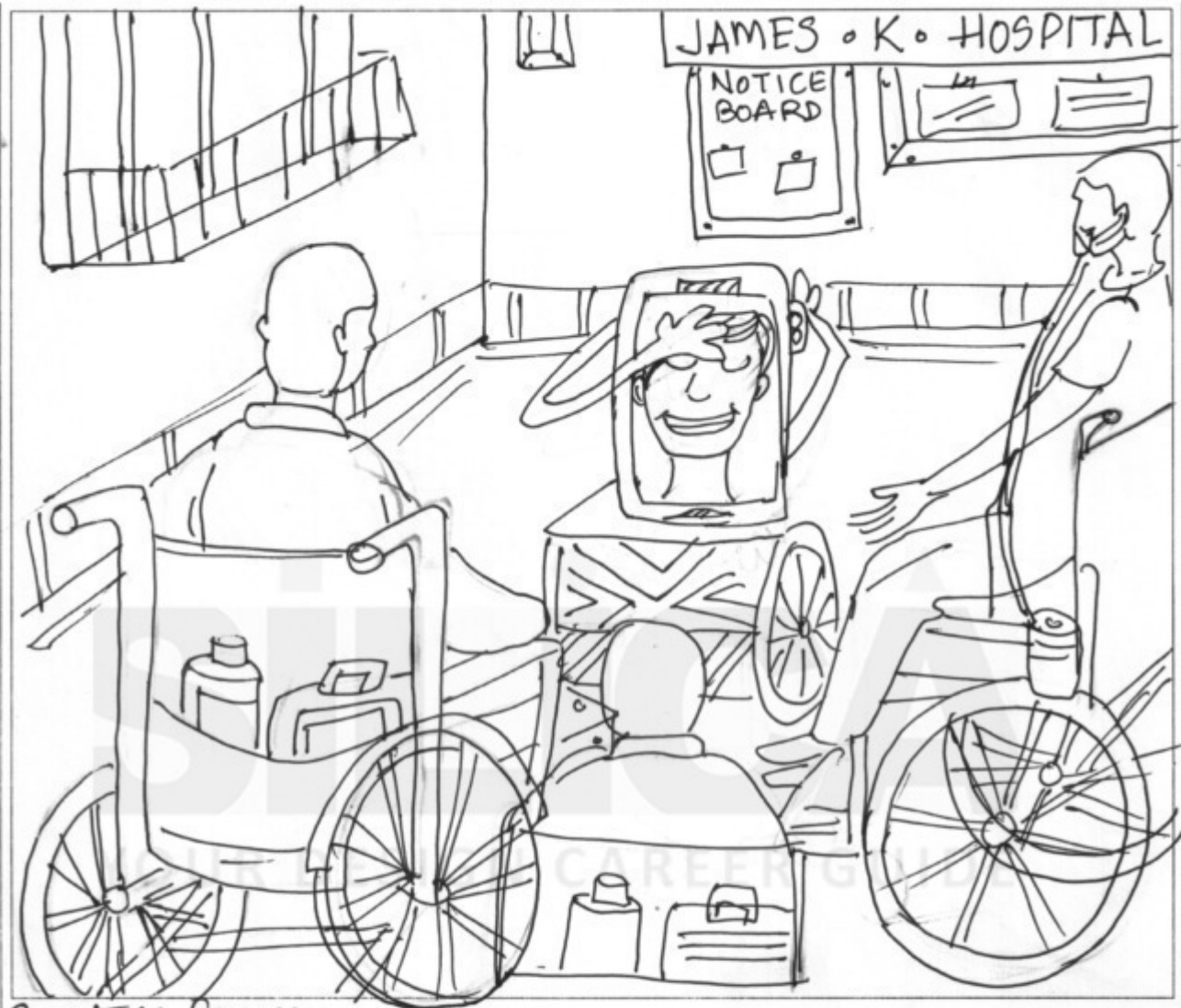
- Think of 2 & 4 wheelers / Smart & Crispy
- easy to use & can be used by any age group
- Rechargeable or can be used with batteries
- thinking of the scenario design it with smart sound.
- Can differentiate between sounds for 2 wheelers & 4 wheelers & Commercial vehicles.

TIPS -

- think of low key sounds with batteries that doesn't add to pollution.
- To describe your idea focus on features
- Show all possible views of your product with varied angles.

Questions 4 to 6 are of 10 marks each.

- Q4. An elderly person wants to click a selfie using a smartphone and share it with their loved one. Imagine and illustrate a novel way of achieving the same task for this user group. (10 marks)



Gesture Camera -
Here, the concept is the camera itself has a gesture sitting on a wheel chair expressing emotions. As people in the hospital especially elderly don't like being alone & sick at this age so introduced a camera with gestures on a wheel chair sharing & clicking selfies with everyone.

“Over 50 people were killed and several injured Friday evening as two trains speeding in opposite directions mowed down people standing on the tracks near a railway crossing watching a Ravan effigy being burnt at a Dussehra celebration here.

There were at least 300 spectators at the Dhobi Ghat ground barely 2km from the Amritsar station. Many of them stood on the tracks close to the Juara Phatak crossing to get a better view and were taking videos of the burning Ravan as the first of the trains ran them over. The gates at the crossing were closed at the time.

It was only after the train had flashed past did the stunned survivors realize what had happened.

Most of the casualties appeared to be of those killed by the first train. The second train sped past seconds later and some of those who had jumped on the second set of tracks to escape the first were caught under it.”

Points to Remember

- 50 people killed
- Several injured - Friday evening
- 2 trains - opposite direction
- People on tracks / Railway crossing
- Dussehra Celebration
- 300 people / Dhobi ghat - 2km from Amritsar station
- Juara Phatak / videos of Ravan Dahn
- Train over them
- Crossing gates closed
- Killed by first train
- 2nd train - few seconds later
- Escaped the first
- Caught by second.

- People on opposite direction
- 300 on ghat near celebⁿ
- several injured
- lying on tracks
- People on tracks
- 50% Killed

People on tracks
& few crossing



Several
Injured



Did not
realise
the other
train
coming

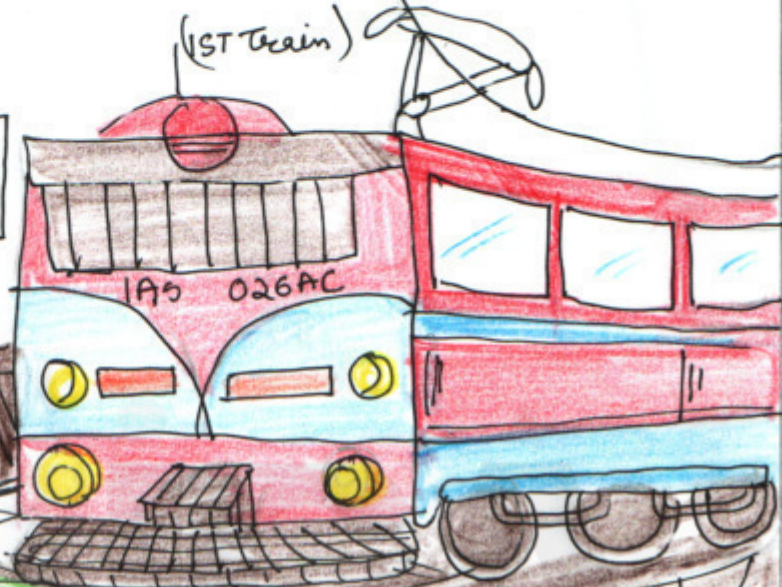
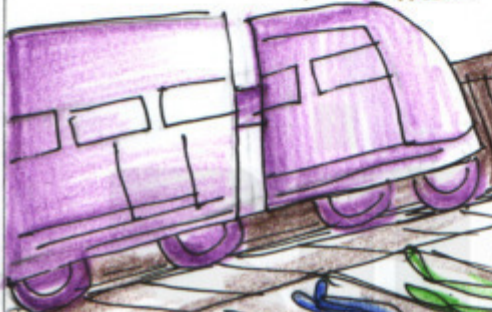


50 People Killed



People
Killed
over tracks
one by one

Hand
train



Dussehra
celebration

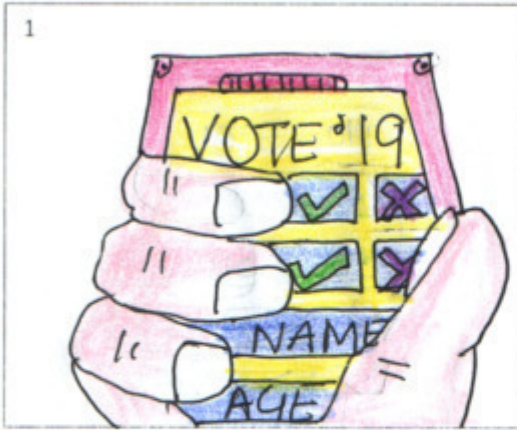
CLOSED

Railway
crossing

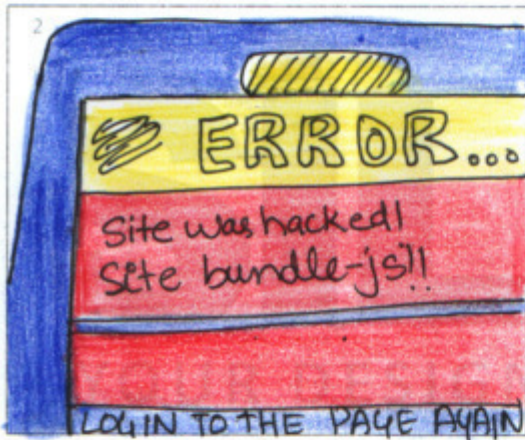


Q6. Imagine a scenario in the near future where the citizens of India can vote using their smartphones. Describe three challenges you foresee in this mode of voting, and represent the solutions below.

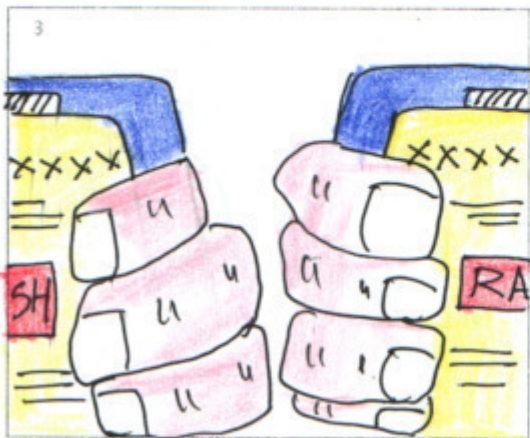
(10 marks)



Lack of Transparency -
Online voting through smartphones has major security flaws. May be at the end of the voting results are diluted & no fair results are displayed on the screens as there is no transparency unlike the voting booths.



Lot of vulnerabilities -
When it comes to voting over the internet using smartphones. May be the device the person is using could be compromised by malware etc or their browser could be compromised. The link used to vote could be spoofed to redirect to a fake website etc.



Voter Identities -
Public can vote more than one time as they can use different browsers or IP addresses to vote. No one can mark the sign on their hand that the voter has given his/her vote.