

M.Des. DAT Prelims Sample Test Papers

Part-I

CDAT

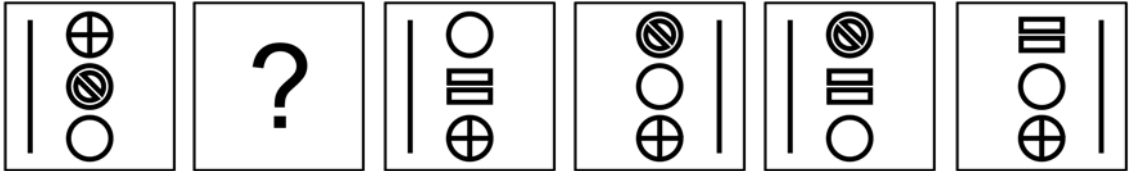
(Common Design Aptitude Test)

PART 1

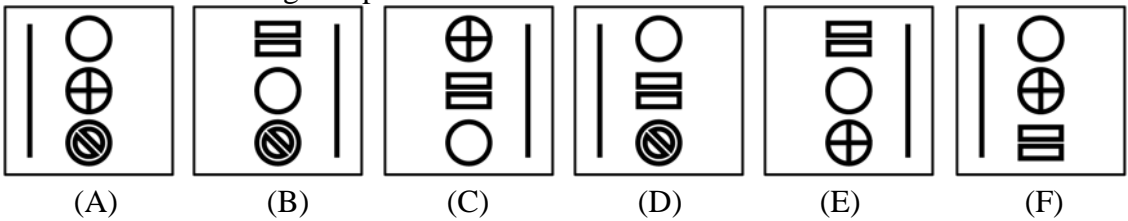
Do not write your name anywhere in the booklet. This will lead to disqualification. Please read the question carefully and follow the instructions provided.

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.

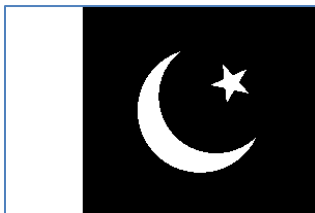


Image 01: National flag of Pakistan

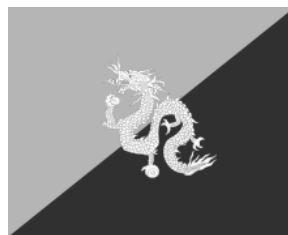


Image 02: National flag of Bhutan





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: _____

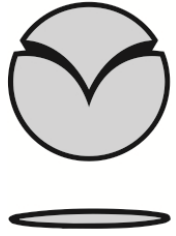



Color scheme of the national flag of Bhutan: _____

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.

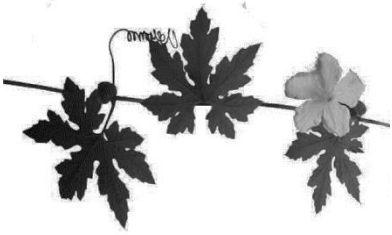



Q4. The following patterns/symbols/icons fully / partially represent the branding / identity of companies or organizations. In the space below each image write the area/domain in which the company/organization operates.

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

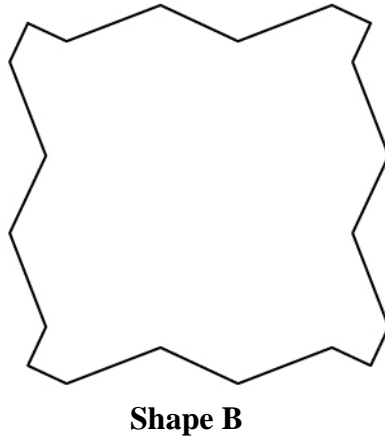
			

Q5. Following are the images of leaves of vegetables. In the space below each image write the name of the vegetable for the leaf.

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 _____

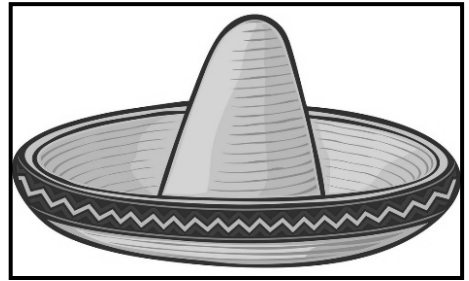


Image 02 _____



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: _____



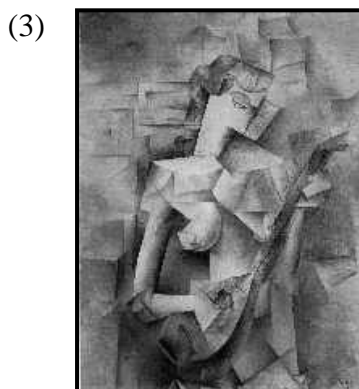
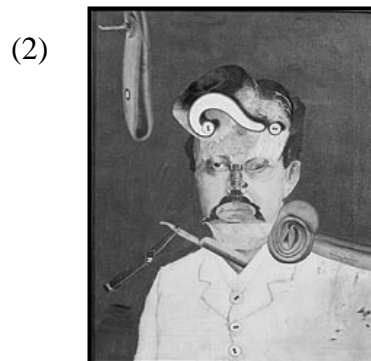
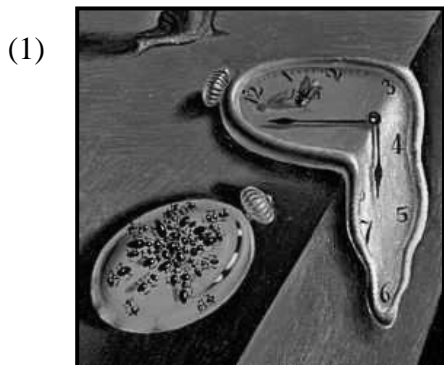
State: _____

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.


A




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)  _____

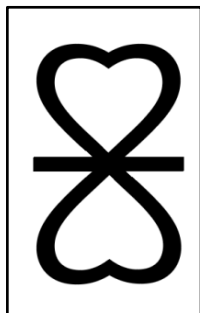
d)  _____

e)  _____

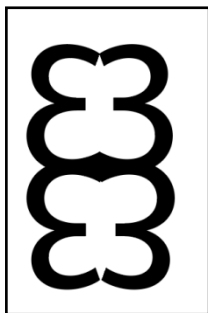
Directions: Question No. 12 carries 3.0 marks.

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

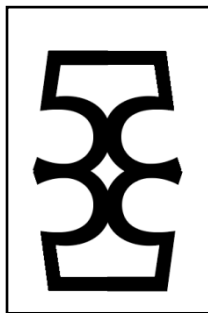
Draw the image in black colour only. Thickness of the pattern must be same as images 01, 02 and 03.



01



02



03



04

Space for Rough Work

Space for Rough Work

Part-II: Domain Specific Test

(Communication Design)

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

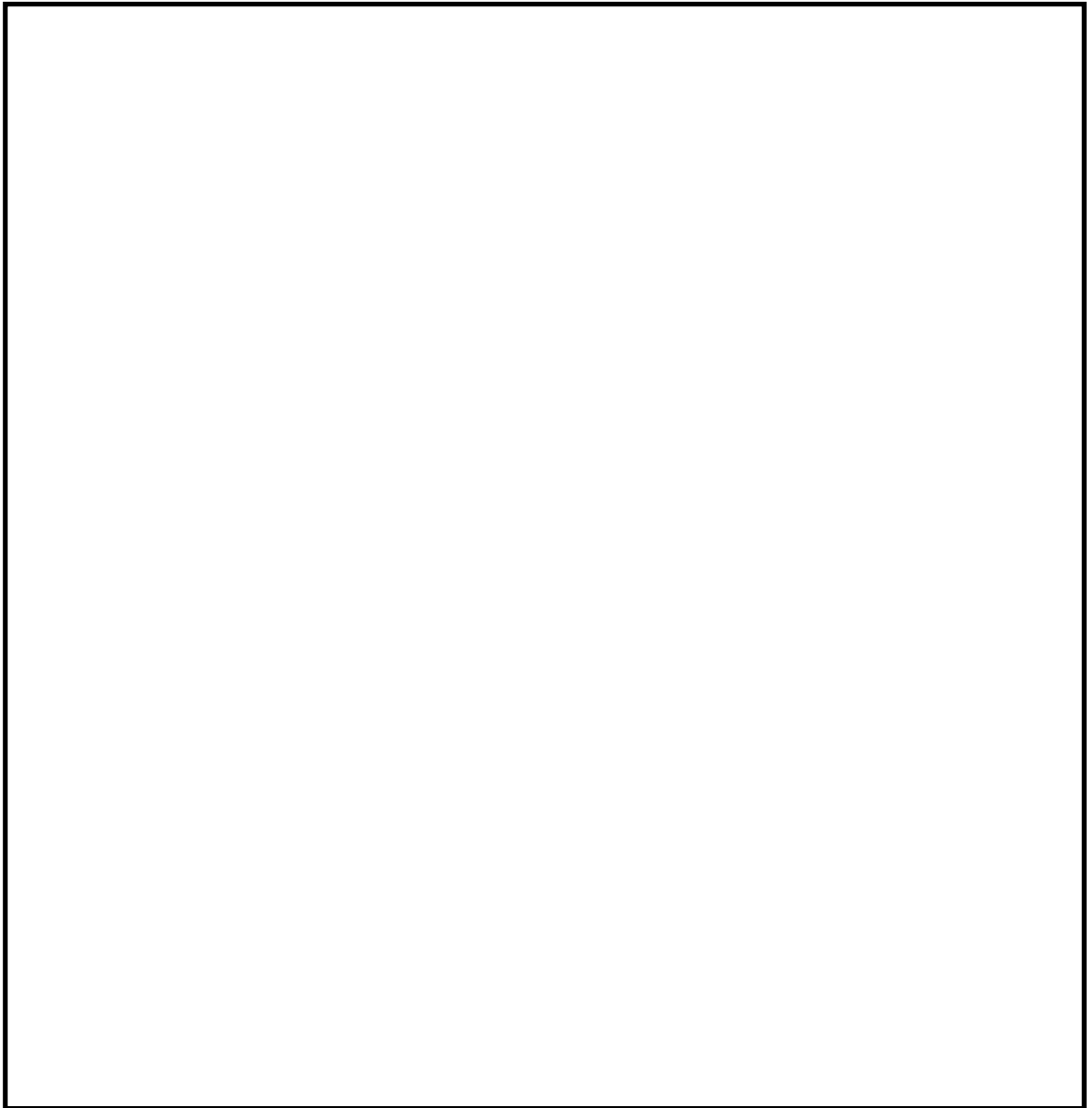
Q1. Five pictographs are given below.

(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. _____

ii. _____

iii. _____

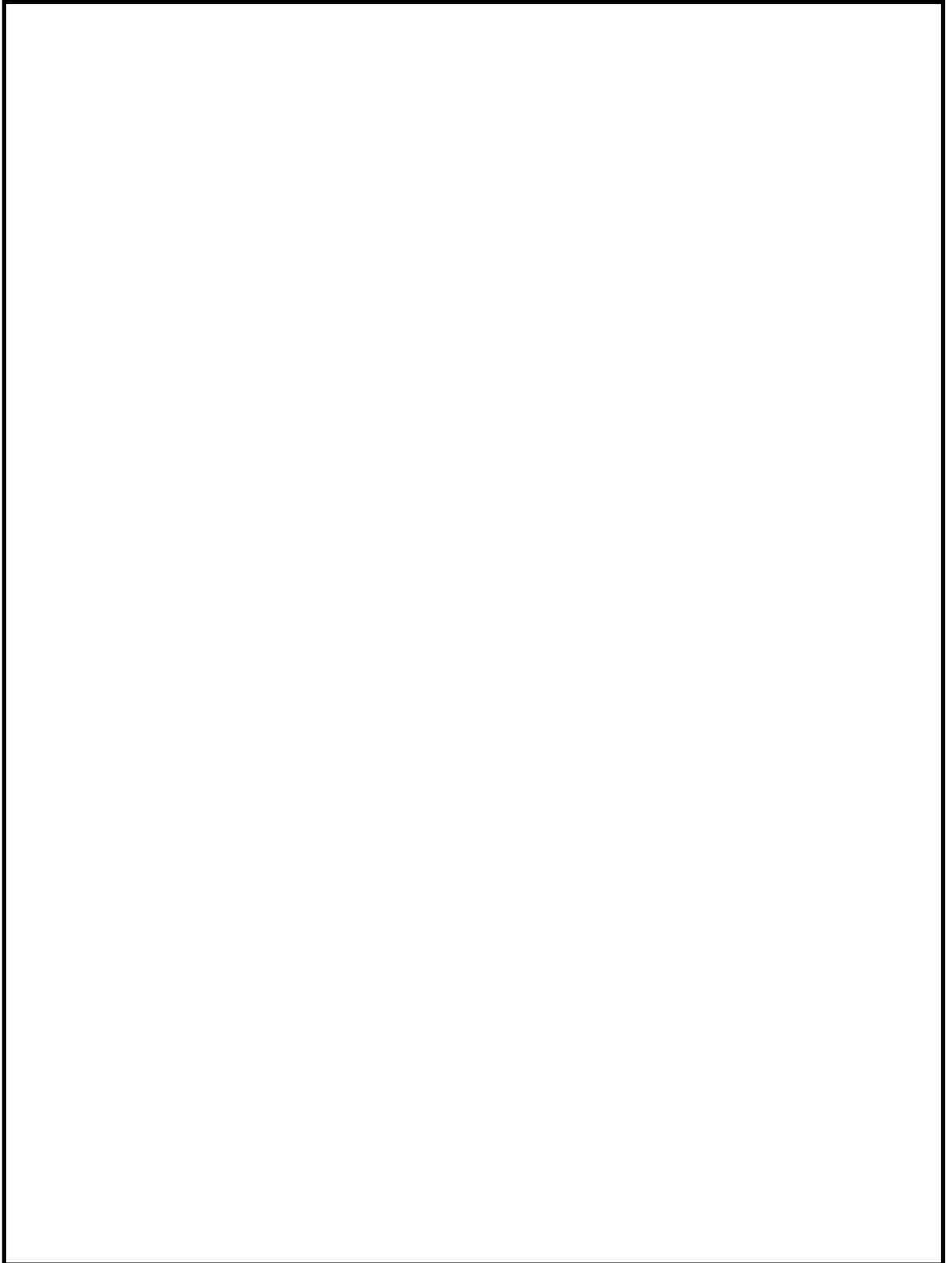
iv. _____

v. _____

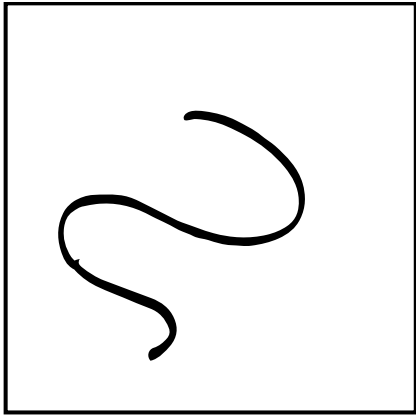
TASK B

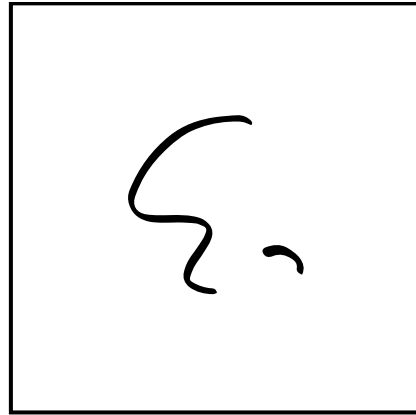
Design a poster to communicate any one of the situations described in Task A.
You may use colours to emphasize the message.

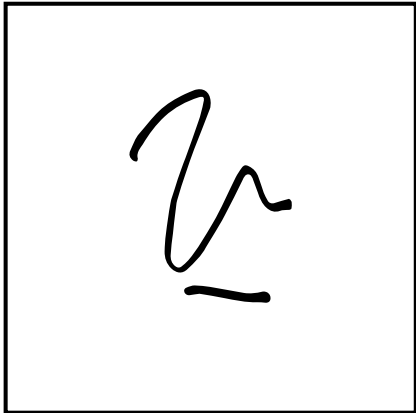
(10 marks)

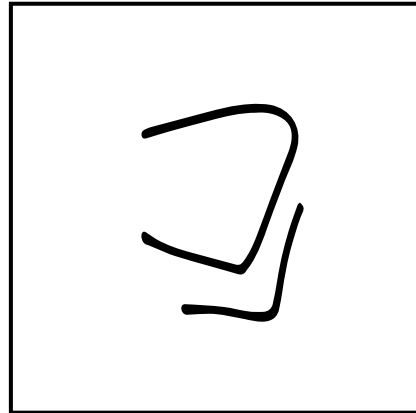


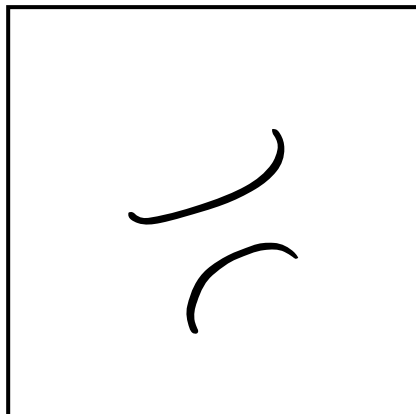
Q3. Complete the following incomplete scribbles using not more than three lines (straight or curved) for each scribble. Give a single-word title for each. (3 x 5 = 15 marks)



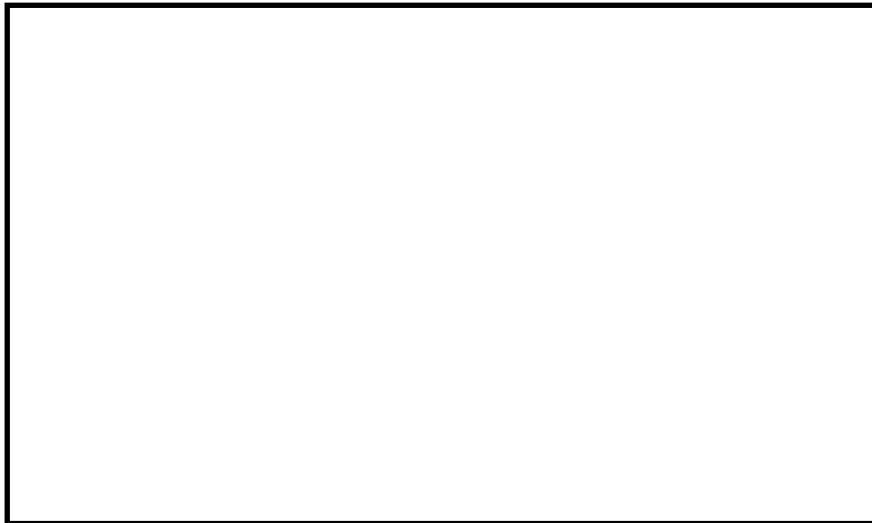








Q4. Suppose you are trapped in a building and fire broke out. How will you save yourself and others? Visualise it in 3 frames, given below. (5 x 3 = 15 marks)



Space for Rough Work

Space for Rough Work

Space for Rough Work

Space for Rough Work

Part-II: Domain Specific Test

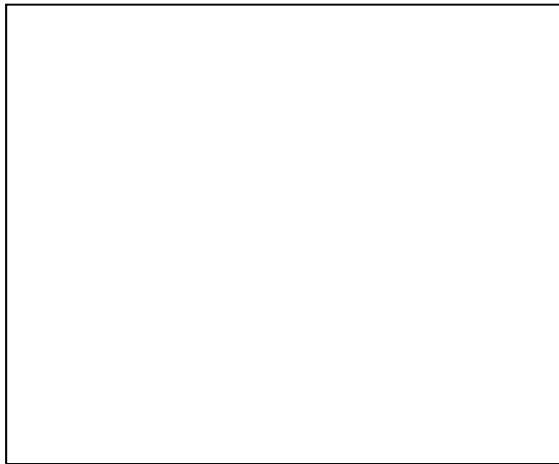
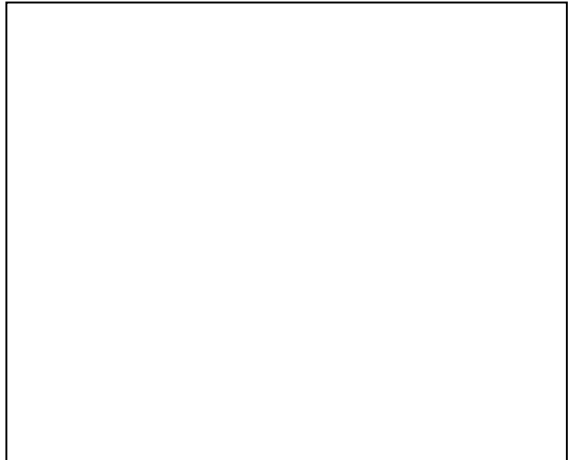
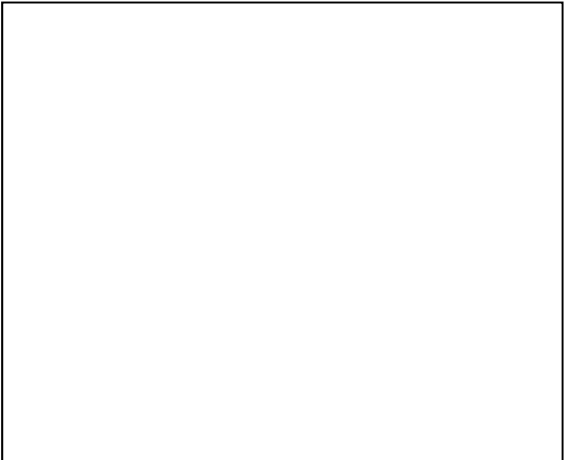
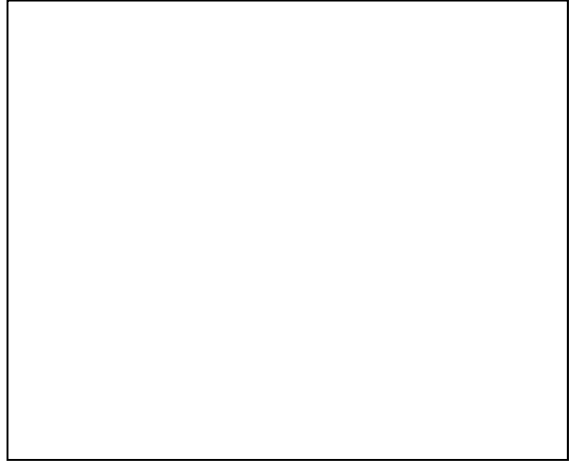
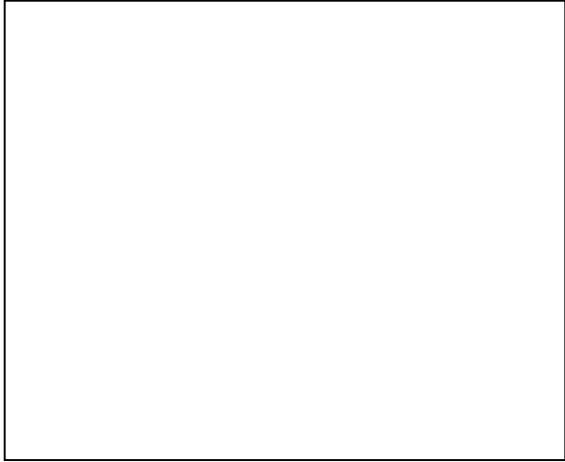
(Industrial Design)

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)

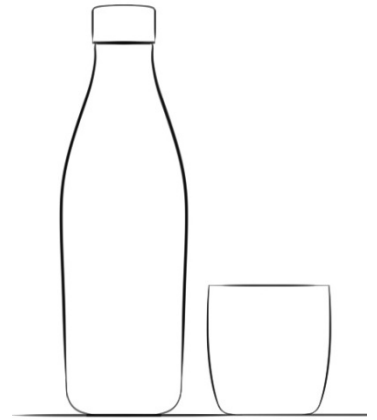
a) Bottle cap

b) Toothpick



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

(5 marks)



Space for task a:

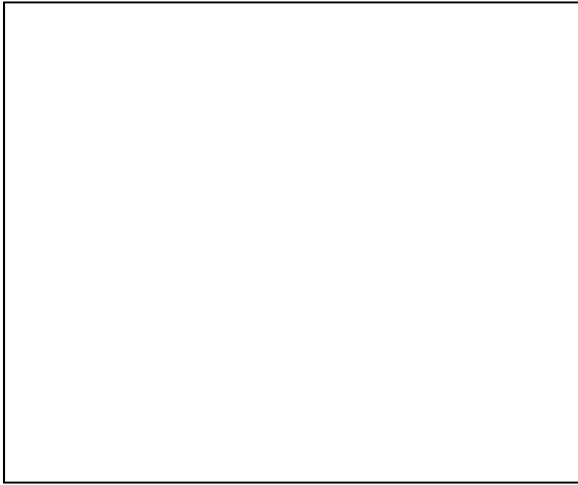
- b) Imagine that the object A shrinks to half its size and object B enlarges to twice its size (A. Water bottle, B. Glass). (5 marks)

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.

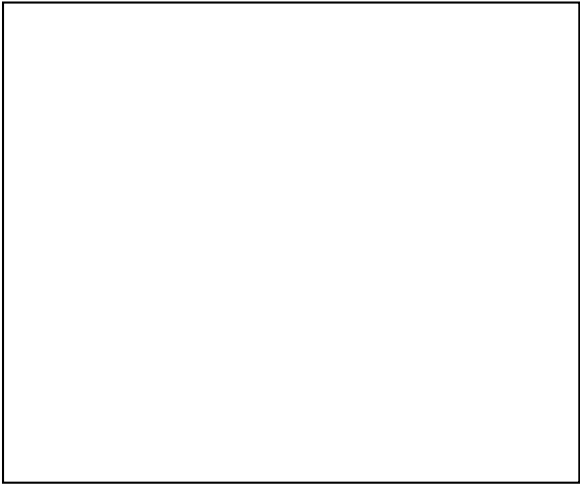
(10 marks)











- 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:

Solution 2:

- 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 –

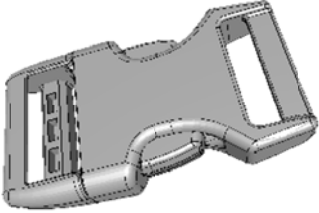



- A. Make a realistic drawing of the product you have designed, showing relevant details.
- B. Draw a realistic sketch of the product in use.






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	
3. 	C. 	
4. Surgery	D. Modular	
5. Eames	E. Motor skill development	
6. Sanp fit	F. Slip-casting	

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

Space for Rough Work

Space for Rough Work

Space for Rough Work

Part-II: Domain Specific Test

(Inter-Disciplinary Design Studies)

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

Proverb: _____

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

Concept 2

Q3A. Create three business ideas to transform Khadi as a global trend.

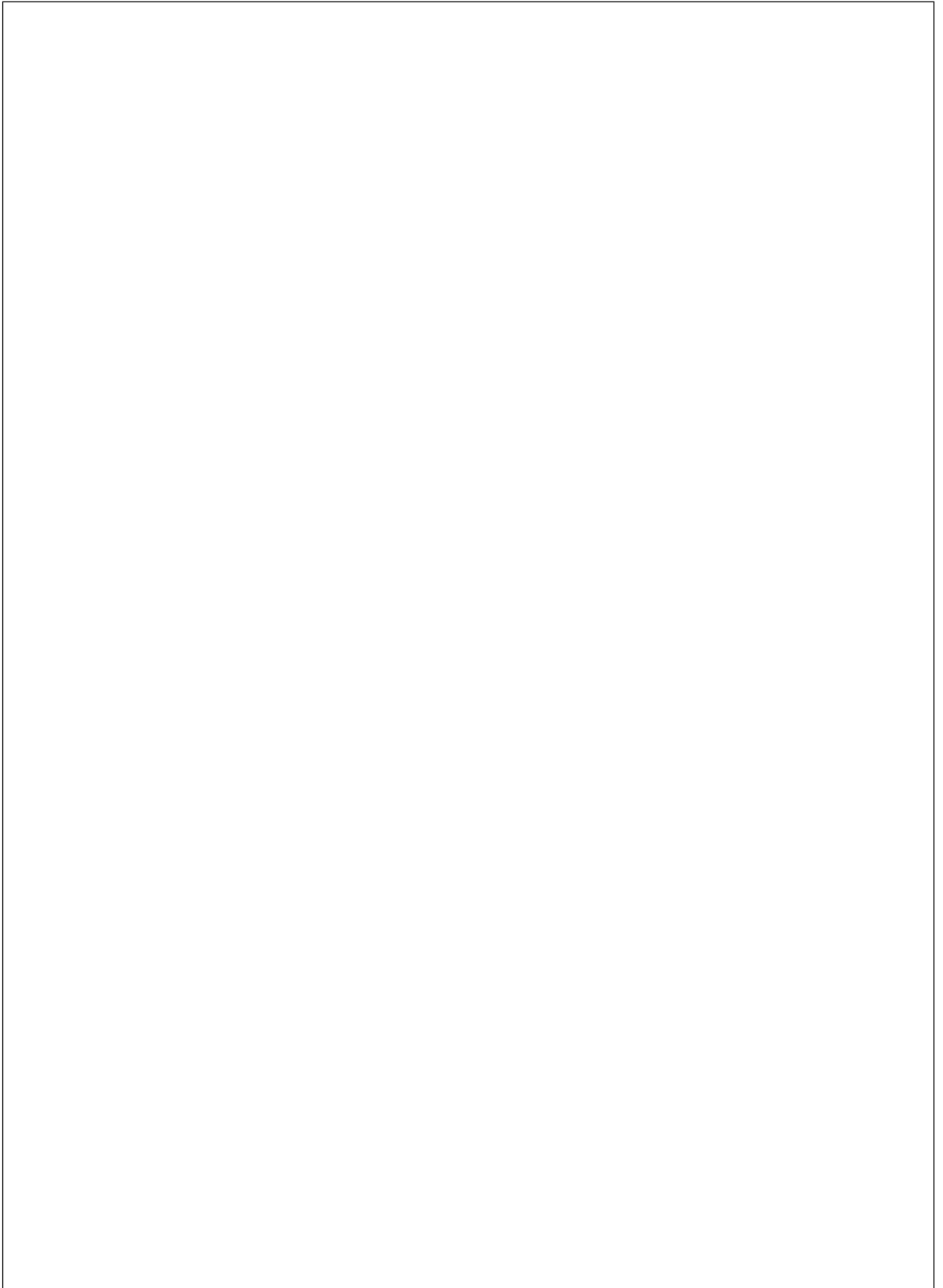
(6 marks)

Business Idea 1

Business Idea 2

Business Idea 3

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

A large, empty rectangular box with a thin black border, intended for the student to draw an advertisement for an international magazine. The box occupies most of the page's vertical space.

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

Madurai

Amritsar

Varanasi

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

City: _____

City: _____

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)

1

2

3

4

5

6

7

8

9

10

11

12

- 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)



Space for Rough Work

Space for Rough Work

... Space for Rough Work

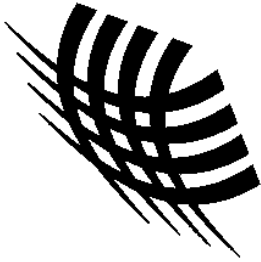
Part-II: Domain Specific Test

(Textile, Apparel, Lifestyle and Accessory Design)

Do not write your name anywhere in the booklet. This will lead to disqualification.

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: _____

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: _____

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: _____

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	
3. Pantone	C. Trend forecasting company code	
4. WGSN	D. a system for matching colour with	
5. Heimtextil	E. Sizing	

Q9. How does 'Waterless Dyeing Method' work? Describe the impact of it on any specific design problem of your choice in the ruled space below.

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.

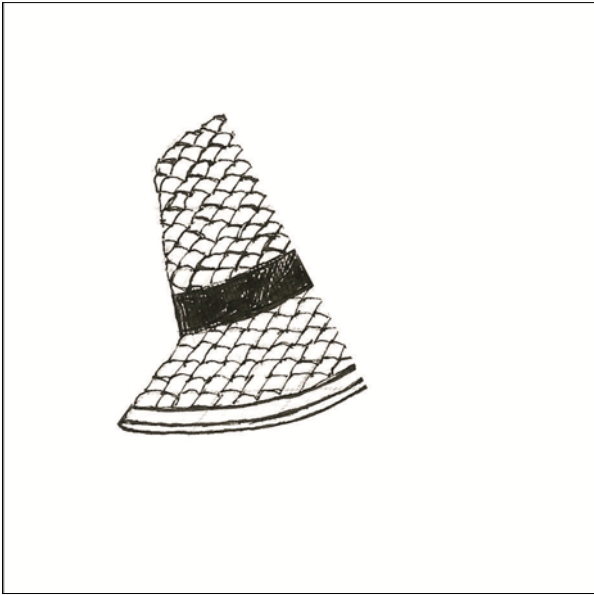
1.

2.

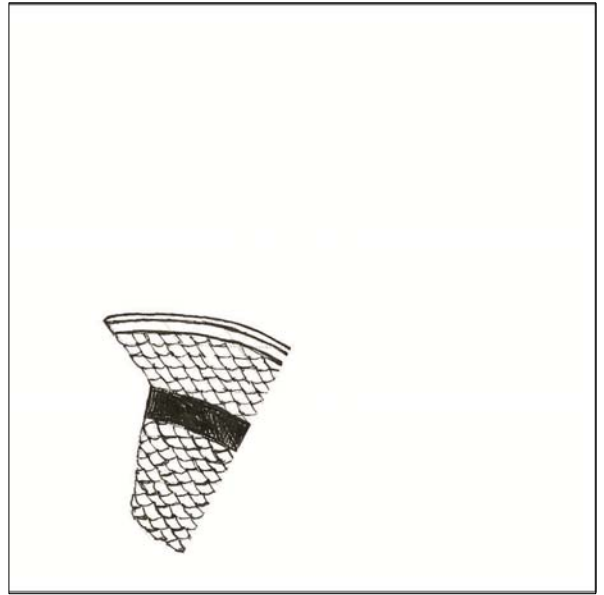
3.

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: _____



Title: _____

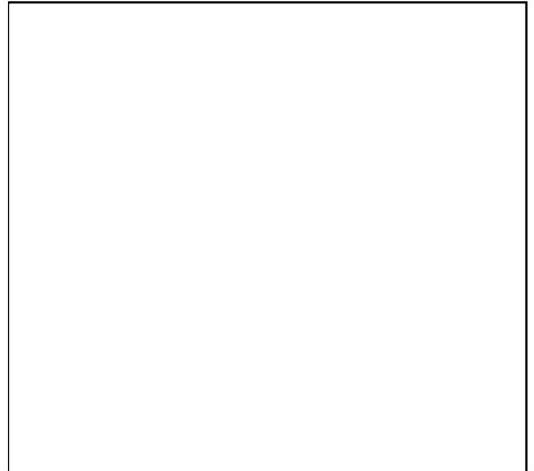


Title: _____

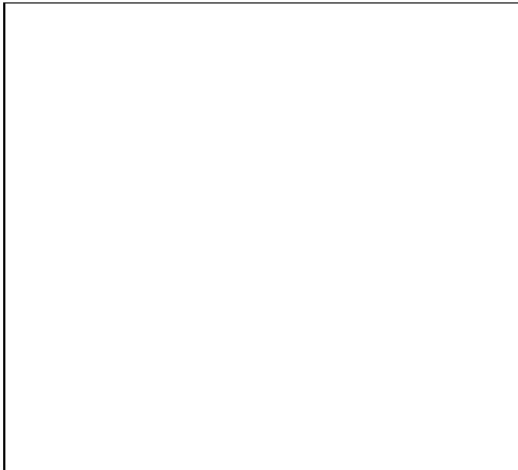
Q12. Study the images provided in frame 1 and frame 5. Establish a connection between the two by drawing a series of transformations from one to the other in the frames 2, 3 and 4.



Frame 1



Frame 4



Frame 2



Frame 5

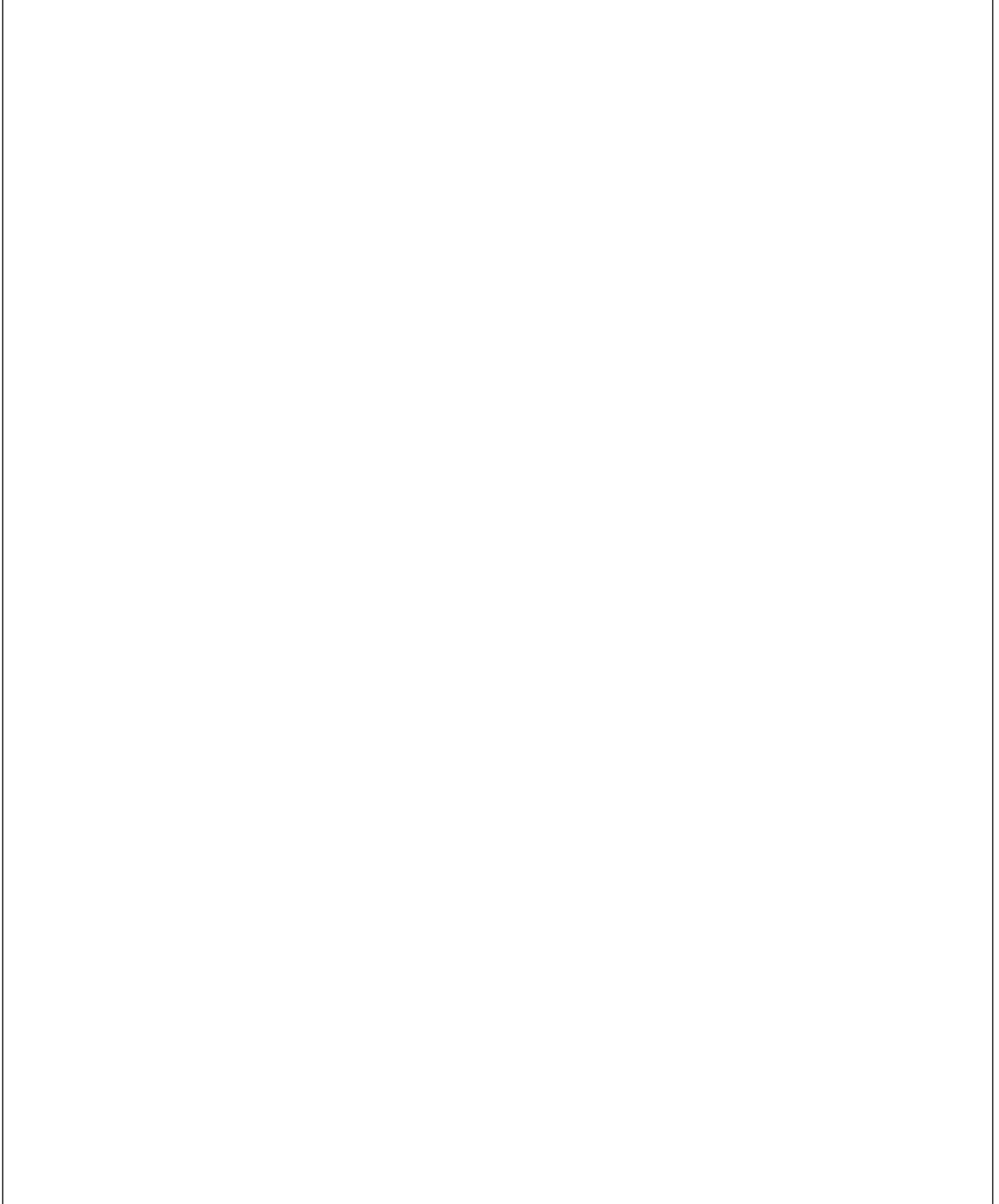


Frame 3

- 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.

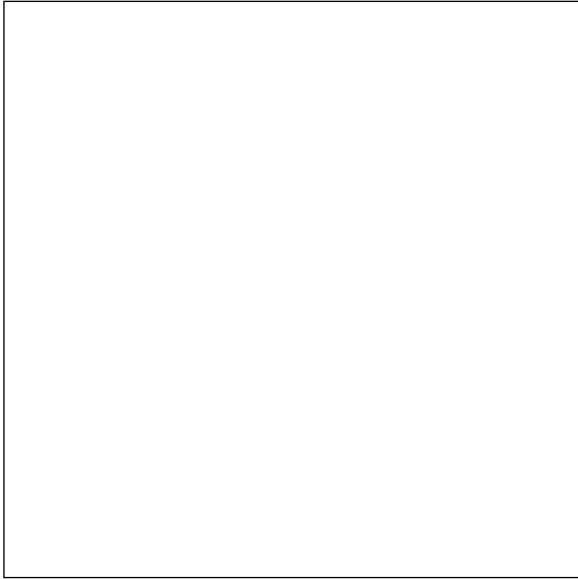
TASK A (5 marks)

Visually represent the scenario.

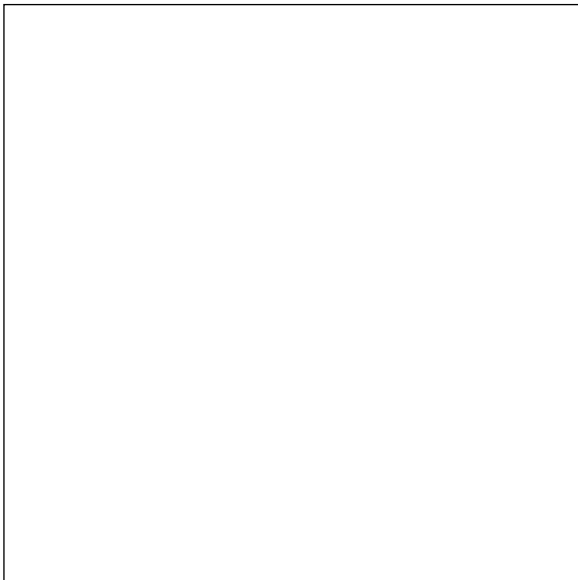


TASK B (10 marks)

Suggest 2 solutions that address the issues.



Caption: _____



Caption: _____

- 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

Space for Rough Work

Part-II: Domain Specific Test

(Information Technology-Integrated Programmes)

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)

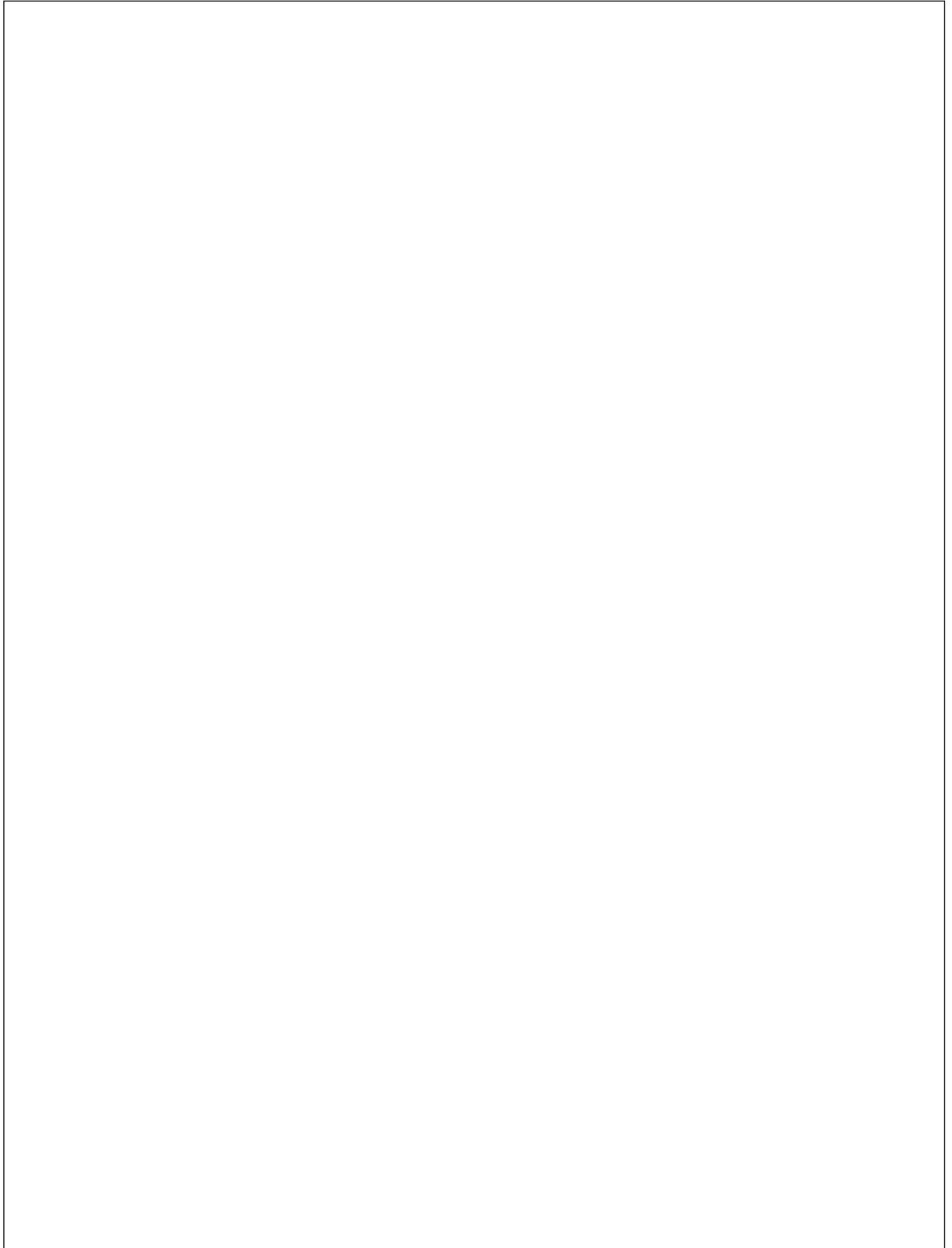
1. _____

2. _____

3. _____

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)



- 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)

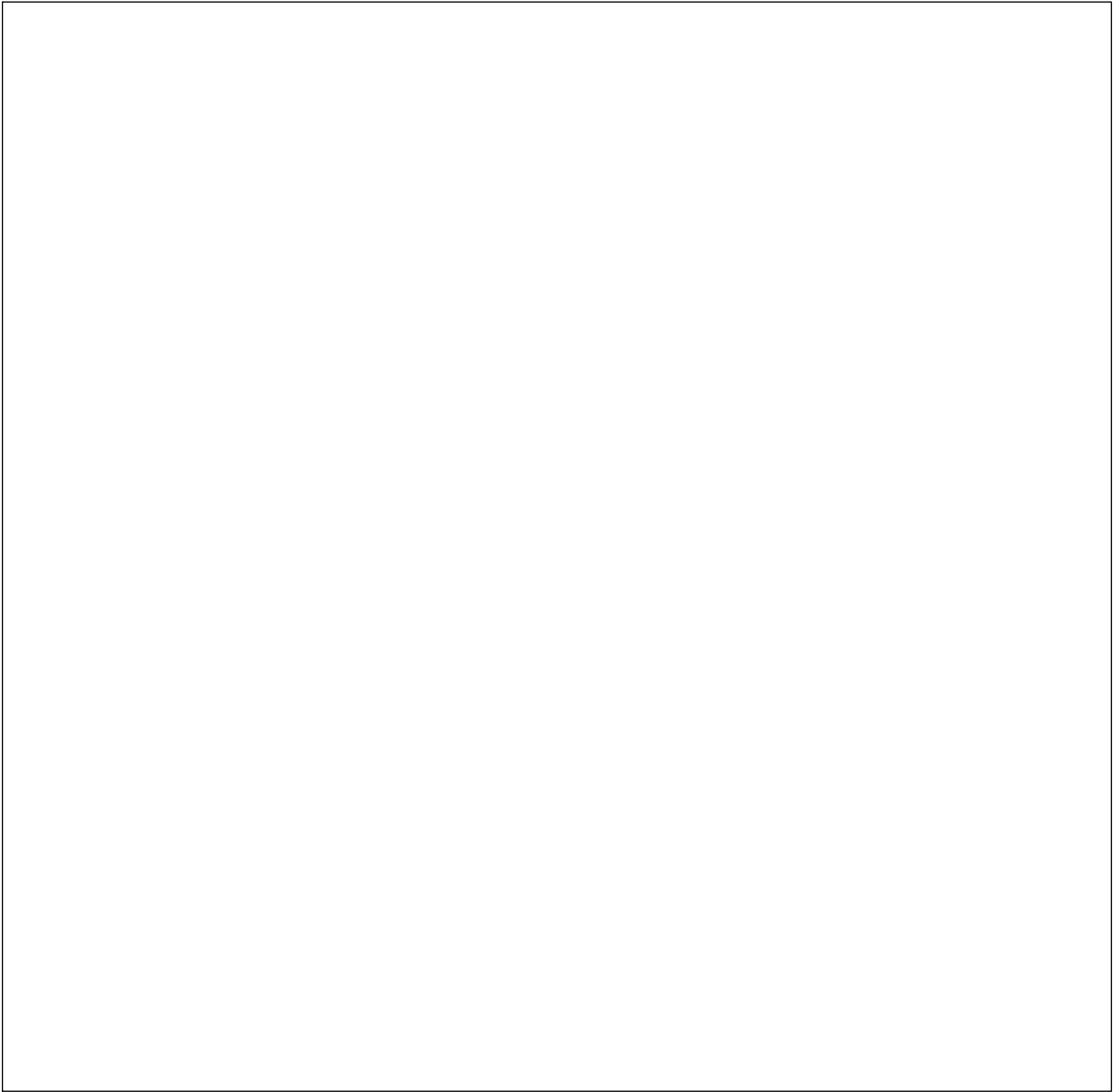


Tagline: _____

Reasons for choice of channel:

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)



Q5. Represent the event in the form of an info-graphic.

(10 marks)

“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.”

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)

1

2

3

Space for Rough Work

Space for Rough Work