

A-2017

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Time: 3 hours

Maximum Marks: 300

READ THE INSTRUCTIONS CAREFULLY

GENERAL

- This sealed booklet is your Question Paper. Do not break the seal till you are told to do so.
- Immediately after breaking the seal of the booklet, verify that the booklet contains 24 pages and that all the 16 questions along with the options are legible. Report immediately about any missing or torn sheet in this booklet and ask for a replacement of the booklet from the invigilator. No replacement will be allowed after 15 minutes of the starting of the examination.
- Write your Name, Roll Number, All India Rank and other details in the space provided and nowhere else. No distinctive / identification mark of any type is to be put anywhere else in this booklet.
- Answers are to be written only in this booklet and within the space provided beside / below each Question and nowhere else. Answers written in non-designated places will not be evaluated.
- Blank spaces are provided within this booklet for rough work.
- Do not deface this booklet or detach or mutilate any sheet from the booklet. Such acts lead to disqualification.
- The question paper has five sections.
- All the Questions are compulsory.

Total Marks Obtained:

In Numbers:

In words:

Signature of the Examiner with date

Signature of the Scrutinizer with date

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NAME: _____

ROLL NO: _____

ALL INDIA RANK: _____

CATEGORY: _____

CATEGORY RANK (IF APPLICABLE): _____

EXAMINATION CENTRE: _____

I HAVE READ ALL THE INSTRUCTIONS AND SHALL ABIDE BY THEM

Signature of the Candidate

Signature of the Invigilator after verification of identity and other details

DO NOT BREAK THE SEAL WITHOUT BEING INSTRUCTED TO DO SO BY THE INVIGILATOR

See the back cover of this booklet for the marking scheme

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DO NOT WRITE ON THIS PAGE

SECTION A: Architectural Awareness (Maximum Marks: 60)
This section contains **FOUR** questions. Question 1 carries **30** marks,
Questions 2,3 and 4 carry **10** marks each. There is **NO** negative marking.

Q.1 This section contains **15** multiple choice questions. Each question has four options, out of which **ONLY ONE** is correct. Mark the correct option with a tick mark.
(15 × 2 = 30 Marks)

- (i) **'Anthropometry'** refers to the scientific study of
- Human behavior
 - Proportion and measurement of human body
 - Human tribes
 - Human belief systems
- (ii) The new **Glass Pyramid** at Louvre museum in Paris has been designed by architect
- | | |
|-------------------------------------|--------------------------------------|
| <input type="checkbox"/> I M Pei | <input type="checkbox"/> Renzo Piano |
| <input type="checkbox"/> Tadao Ando | <input type="checkbox"/> Jean Nouvel |
- (iii) In a **colour system**, the complementary harmony is achieved by using the combination of
- | | |
|---|---|
| <input type="checkbox"/> Red and Yellow | <input type="checkbox"/> Yellow and Green |
| <input type="checkbox"/> Red and Green | <input type="checkbox"/> Blue and Green |
- (iv) In climatic study **'Green House Effect'**, means
- Pollution of houses in tropical region
 - Green painting on external walls
 - Prevention from ultra violet radiation by Ozone Layer
 - Trapping of solar energy due to excess CO₂ in the atmosphere
- (v) **'Chaitya window'**, is an element of
- | | |
|--|--|
| <input type="checkbox"/> Islamic Architecture | <input type="checkbox"/> Buddhist Architecture |
| <input type="checkbox"/> Egyptian Architecture | <input type="checkbox"/> Roman Architecture |
- (vi) The instrument that measures **wind speed** is known as
- | | |
|------------------------------------|-------------------------------------|
| <input type="checkbox"/> Barometer | <input type="checkbox"/> Lux meter |
| <input type="checkbox"/> Altimeter | <input type="checkbox"/> Anemometer |

- (vii) The material that can be used on the interior walls of a cinema hall for **sound absorption** is
- | | |
|--|--|
| <input type="checkbox"/> Ceramic Tile | <input type="checkbox"/> Stainless Steel Panel |
| <input type="checkbox"/> Frosted Glass | <input type="checkbox"/> Gypsum Board |
- (viii) The most **energy efficient** light source for building interiors is
- | | |
|--------------------------------------|---------------------------------------|
| <input type="checkbox"/> Fluorescent | <input type="checkbox"/> CFL |
| <input type="checkbox"/> LED | <input type="checkbox"/> Incandescent |
- (ix) **'World Water Day'**, as designated by United Nations is celebrated on
- | | |
|-----------------------------------|-------------------------------------|
| <input type="checkbox"/> 22 March | <input type="checkbox"/> 8 November |
| <input type="checkbox"/> 22 April | <input type="checkbox"/> 5 June |
- (x) The animal figure featured in the **'Make in India'** logo is
- | | |
|--------------------------------|-------------------------------|
| <input type="checkbox"/> Cow | <input type="checkbox"/> Lion |
| <input type="checkbox"/> Tiger | <input type="checkbox"/> Bear |
- (xi) **'Keystone'** in the context of a built form refers to
- | | |
|--|--|
| <input type="checkbox"/> Central top stone of an arch | <input type="checkbox"/> Stone shelf for key rings |
| <input type="checkbox"/> Stepping stone in front of door entry | <input type="checkbox"/> Corner stone of flooring |
- (xii) The newly introduced Rupees Two Thousand currency note has Mahatma Gandhi's picture on one side. The other side of the same note depicts the **picture of an Indian innovation** known as
- | | |
|--------------------------------------|-------------------------------------|
| <input type="checkbox"/> Chandrayaan | <input type="checkbox"/> Mangalyaan |
| <input type="checkbox"/> Aryabhata | <input type="checkbox"/> Bhaskara |
- (xiii) Inside a building, the **cassette air conditioner** is located on
- | | |
|--|--------------------------------------|
| <input type="checkbox"/> Wall plane | <input type="checkbox"/> Window area |
| <input type="checkbox"/> Ceiling plane | <input type="checkbox"/> Door area |
- (xiv) In relation to the profession of architecture in India, COA refers to
- | | |
|--|--|
| <input type="checkbox"/> Committee of Arts | <input type="checkbox"/> Committee of Architects |
| <input type="checkbox"/> Council of Architecture | <input type="checkbox"/> Commission of Arts |
- (xv) The one among the following which is **NOT** a renewable energy source is
- | | |
|--------------------------------------|---------------------------------------|
| <input type="checkbox"/> Wind power | <input type="checkbox"/> Solar power |
| <input type="checkbox"/> Tidal waves | <input type="checkbox"/> Fossil fuels |

Q.2 Match the Countries listed in Column I with their corresponding colour combinations of their National Flags in Column II.

(5 × 2 = 10 Marks)

Column I	Column II
(A) France <input type="checkbox"/>	(P) Blue – Green – Yellow
(B) Germany <input type="checkbox"/>	(Q) Red – White – Black
(C) Italy <input type="checkbox"/>	(R) Green – White – Red
(D) Ireland <input type="checkbox"/>	(S) Red – Black – Golden Yellow
(E) Yemen <input type="checkbox"/>	(T) Green – White – Orange
	(U) Blue – White – Red






Q.3 Match the following Indian Art and Festivals listed in Column I with their originating states in Column II.

(5 × 2 = 10 Marks)

Column I	Column II
(A) Madhubani paintings <input type="checkbox"/>	(P) Maharashtra
(B) Lavani dance <input type="checkbox"/>	(Q) Uttar Pradesh
(C) Kalaripayattu <input type="checkbox"/>	(R) Assam
(D) Chikan embroidery <input type="checkbox"/>	(S) Bihar
(E) Rongali Bihu Festival <input type="checkbox"/>	(T) Kerala
	(U) West Bengal

Q.4 Match the Symbols / Logos shown in Column I with their corresponding thematic domains mentioned in Column II.

(5 × 2 = 10 Marks)

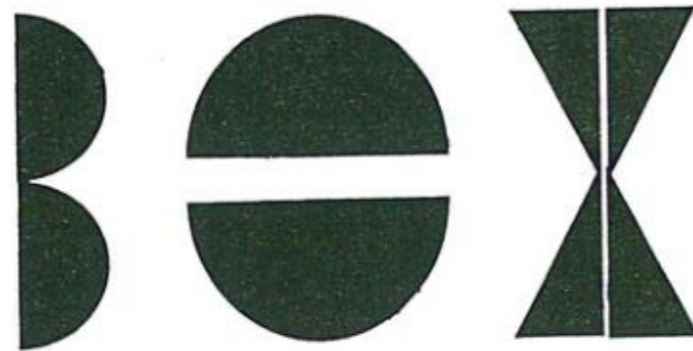
Column I		Column II
(A) 	<input type="checkbox"/>	(P) Yoga
(B) 	<input type="checkbox"/>	(Q) Blind
(C) 	<input type="checkbox"/>	(R) Psychiatry
(D) 	<input type="checkbox"/>	(S) Human Rights
(E) 	<input type="checkbox"/>	(T) Heavy Industries
		(U) Biopharmaceuticals

SECTION B: Geometrical Drawing (Maximum Marks: 60)
This section contains **THREE** questions. Each question carries **20** marks.

Q.5 Given below are some geometrical shapes which may be used to form letters of a word.



For example the word 'BOX' is expressed as

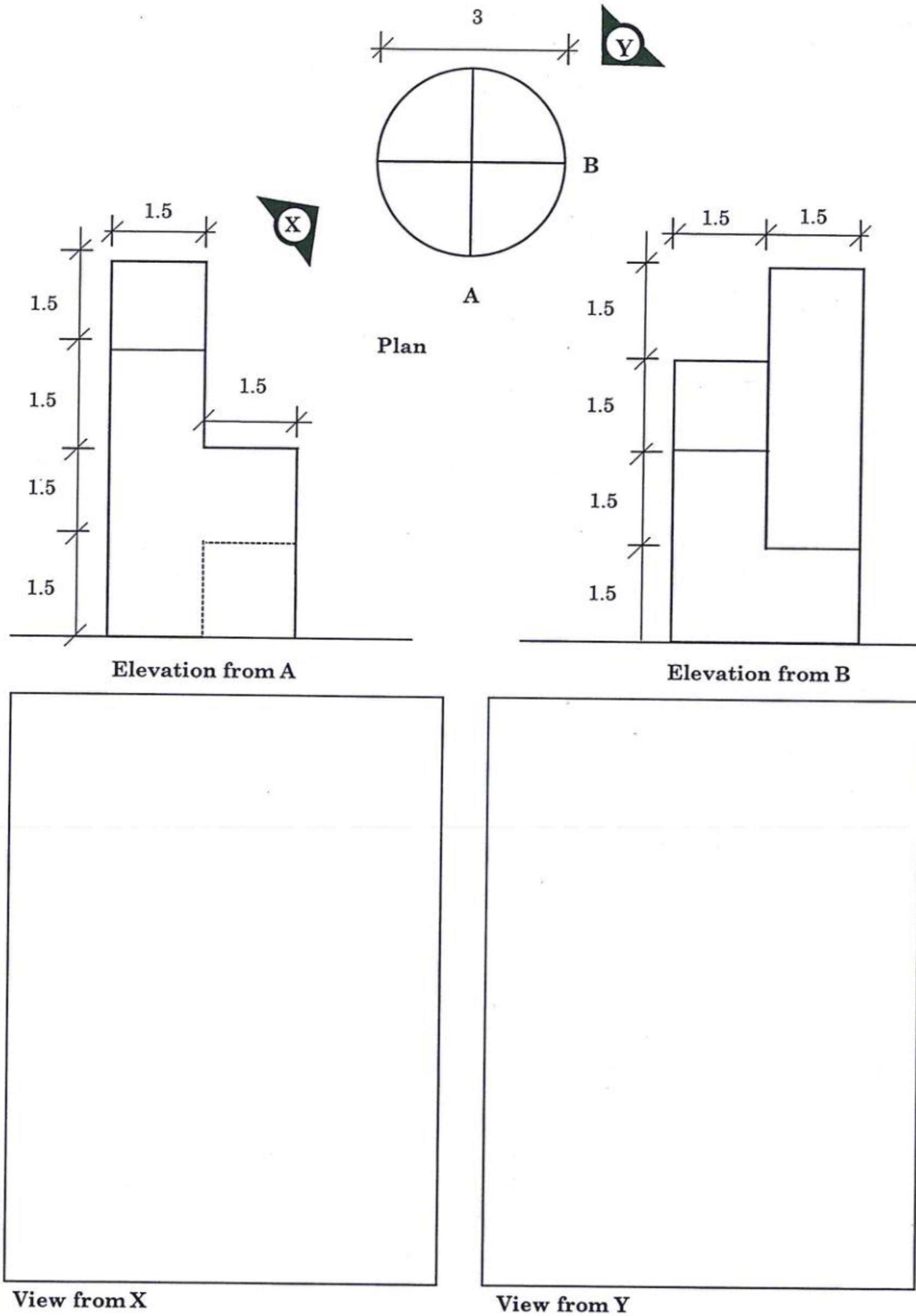


Compose the word 'MARKS' in a similar fashion using the space given below.

(20 Marks)

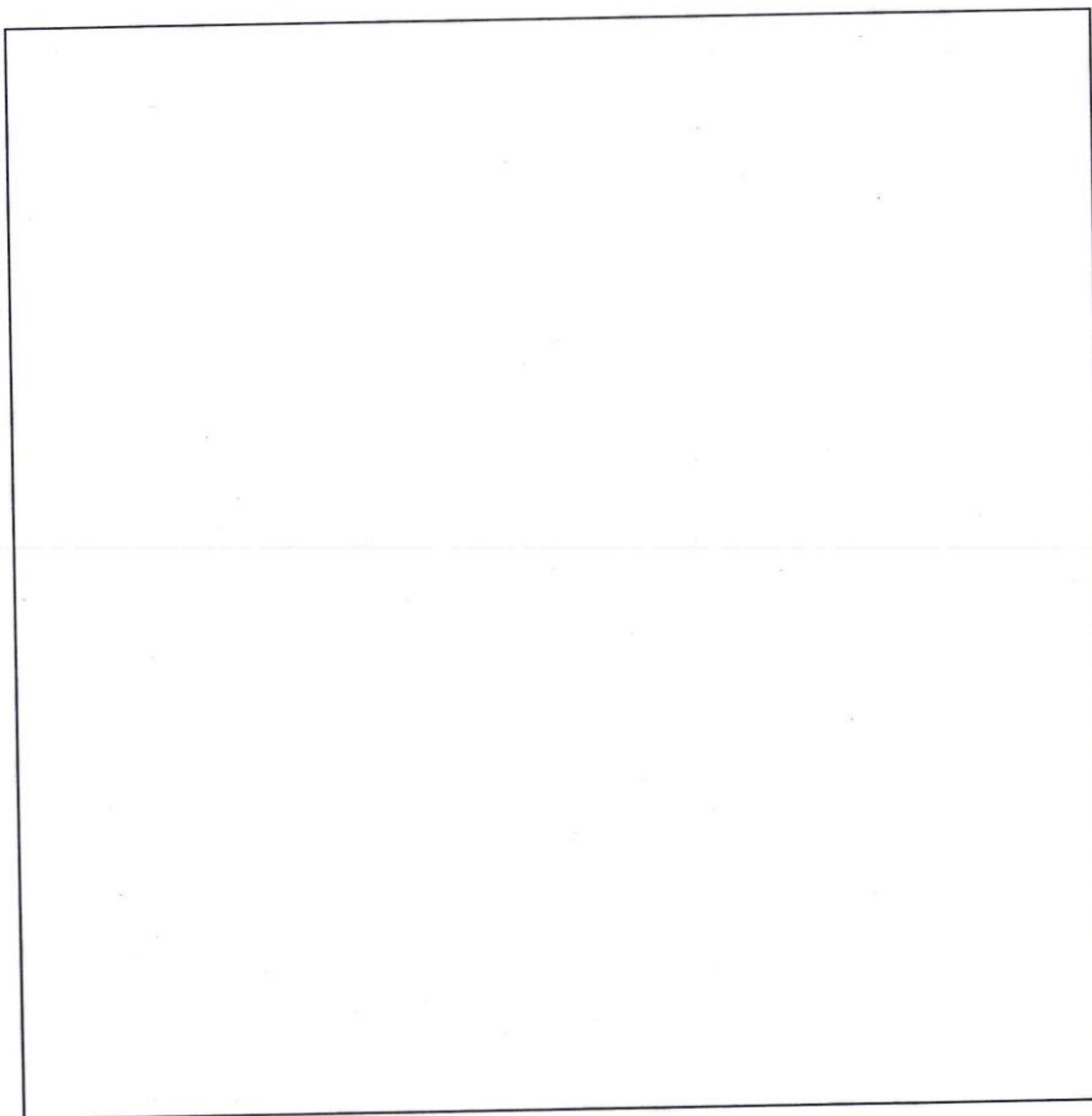
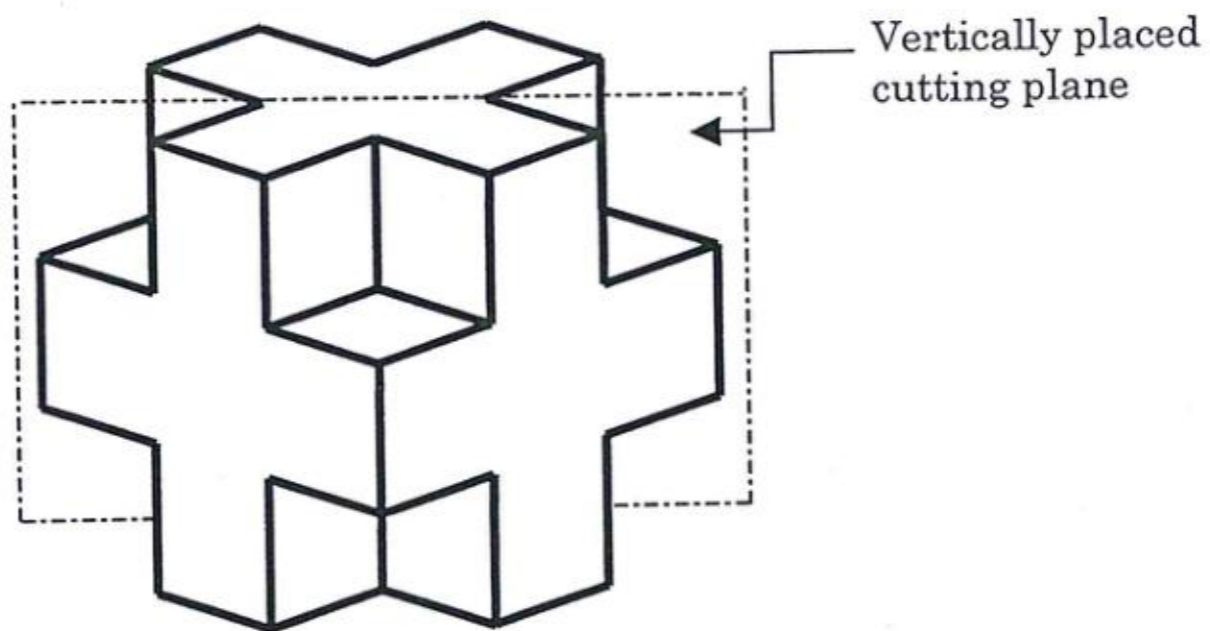
Q.6 Draw three dimensional views from points X & Y for the object given below as shown in plan, elevations from point A and point B along with dimensions in centimeter.

(20 Marks)



Q.7 The three dimensional object is sliced through a vertical plane as indicated below. Draw the 3D sectional view at the cutting / slicing plane level.

(20 Marks)

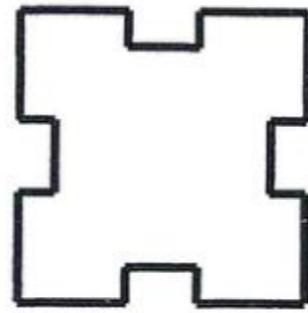


SECTION C: Three Dimensional Perception (Maximum Marks: 60)

This section contains **THREE** questions. Each question carries **20 Marks**.

Q.8 Using the given plan and typical elevation of a multistoried building, draw the Snail's eye view and Bird's eye view in the space given below.

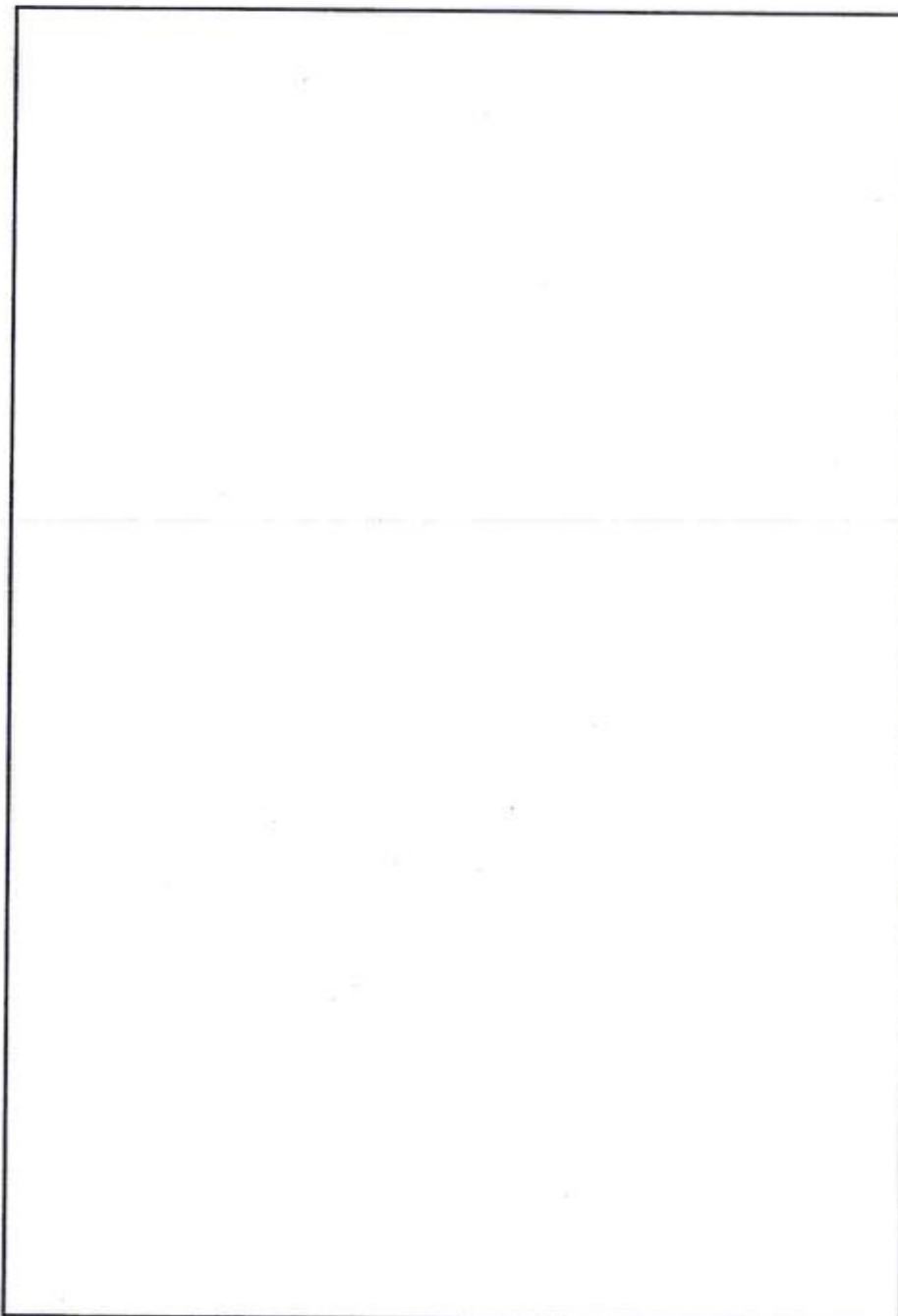
(20 Marks)



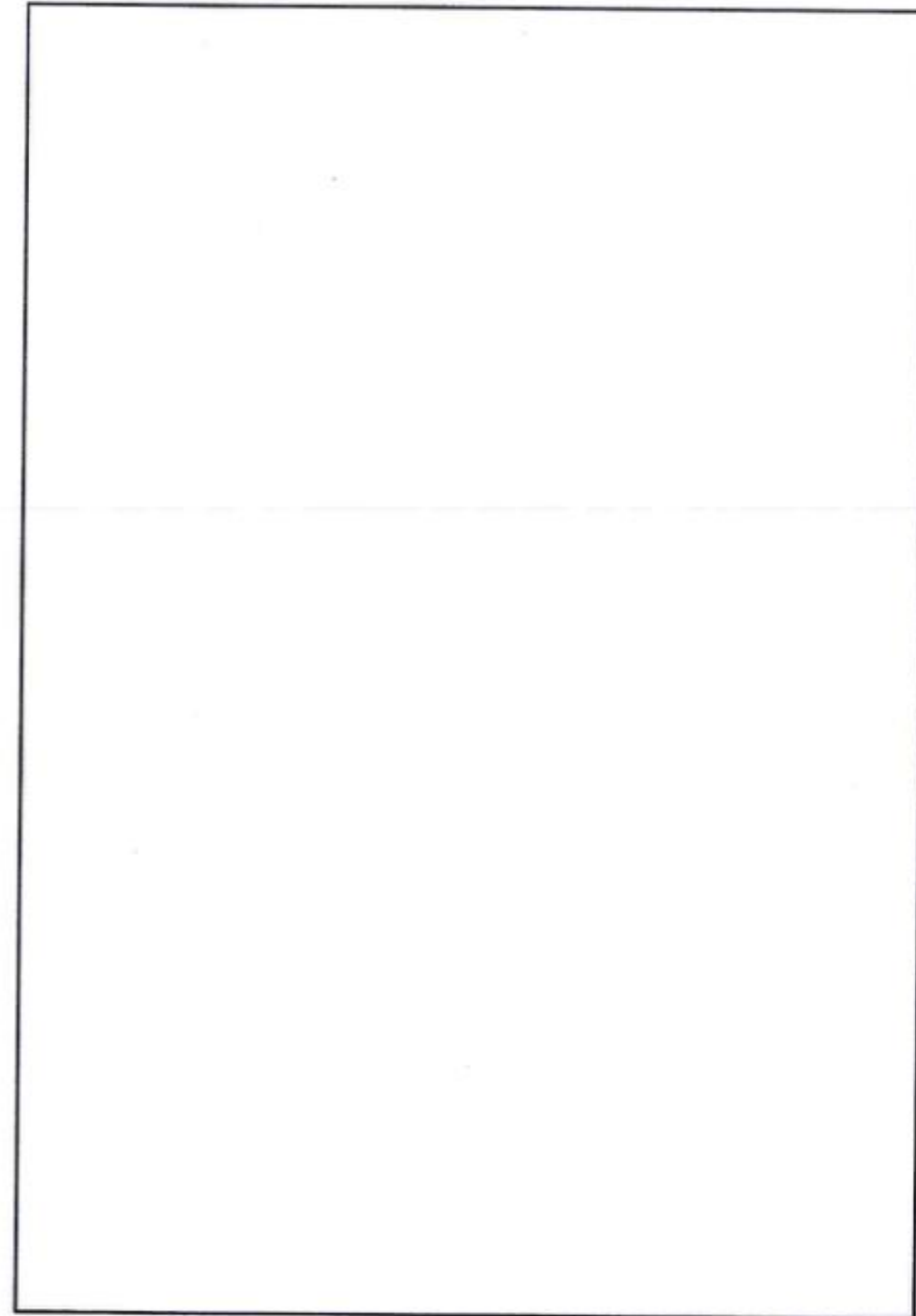
Top View



Typical Elevation

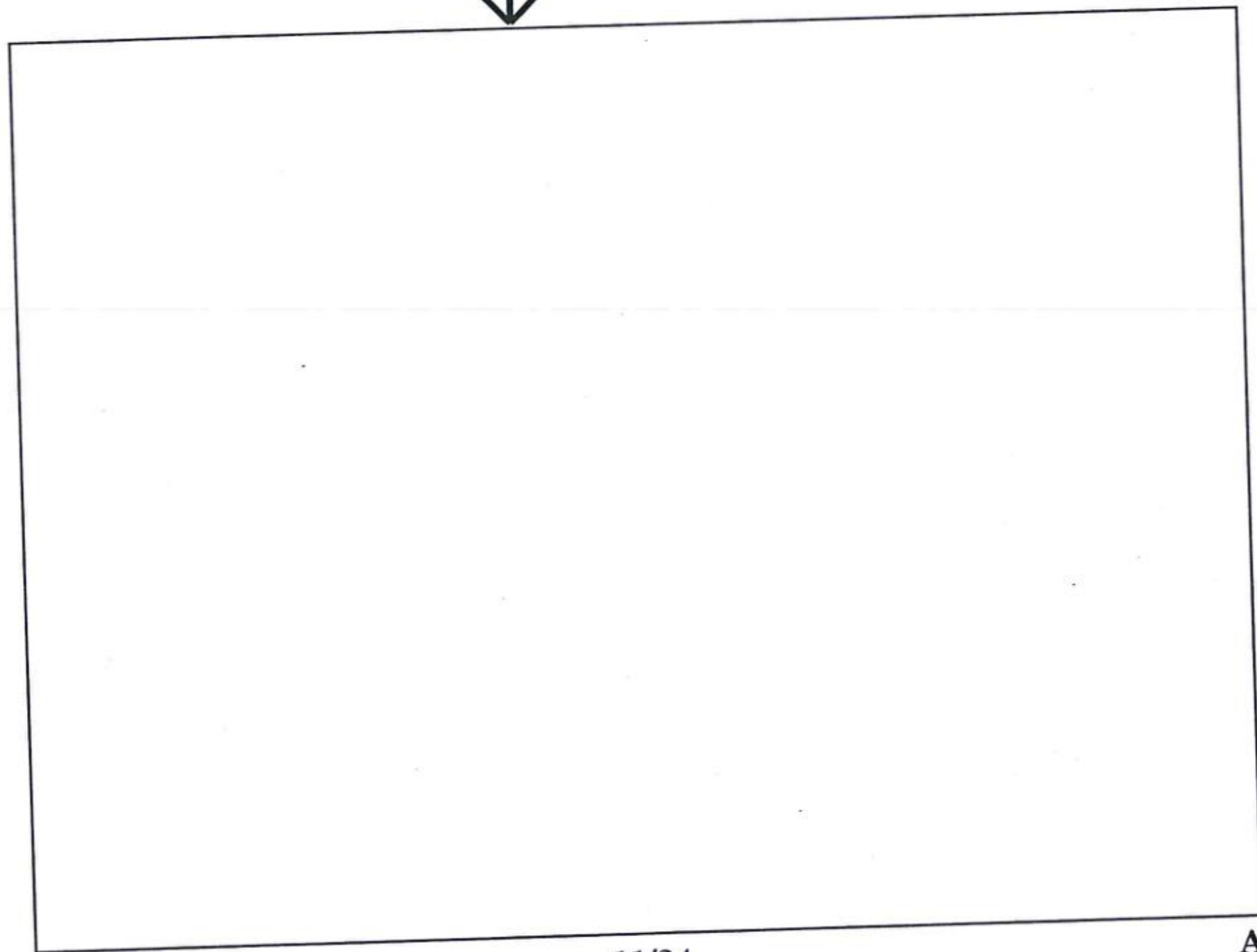
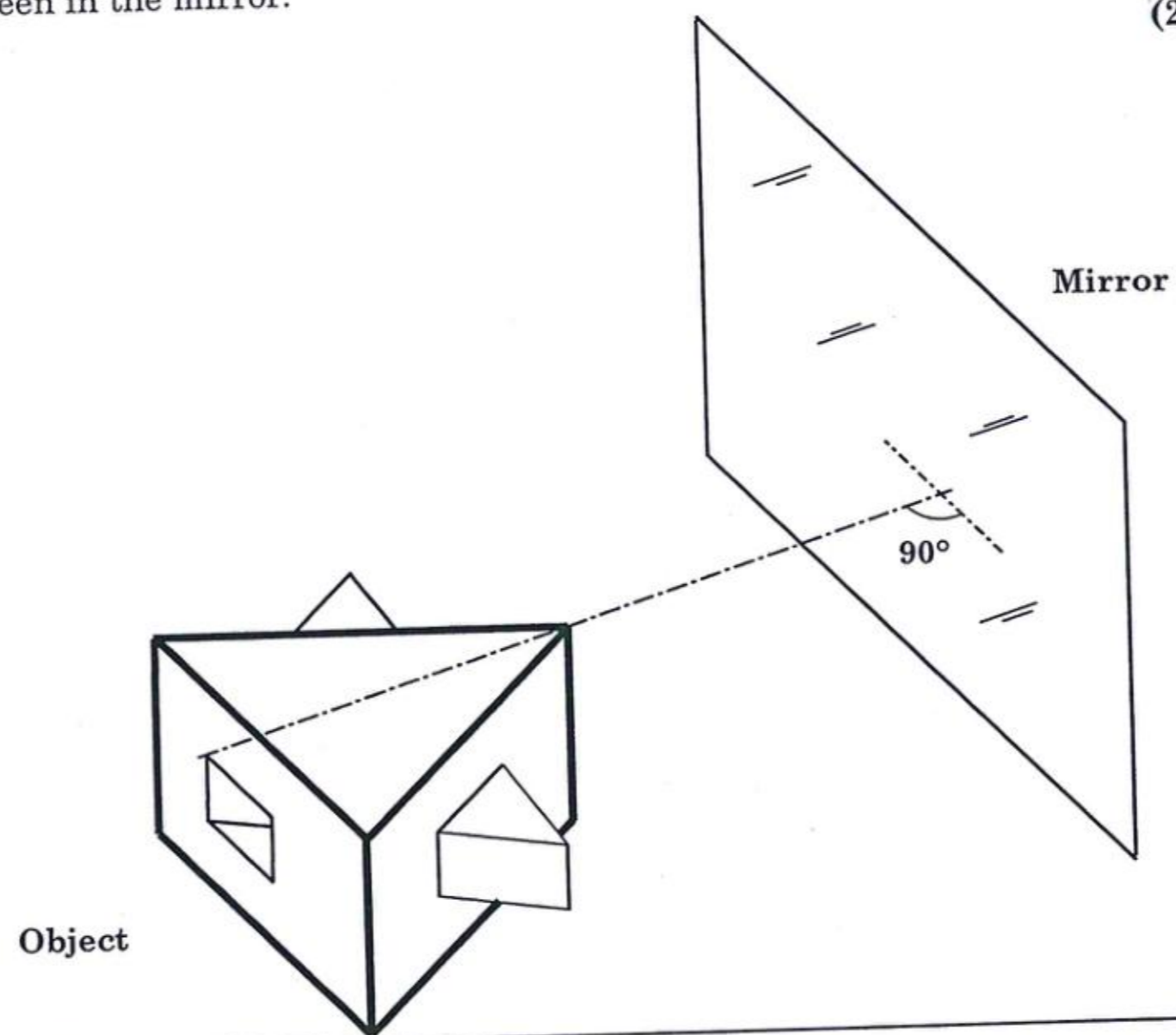


Snail's eye view



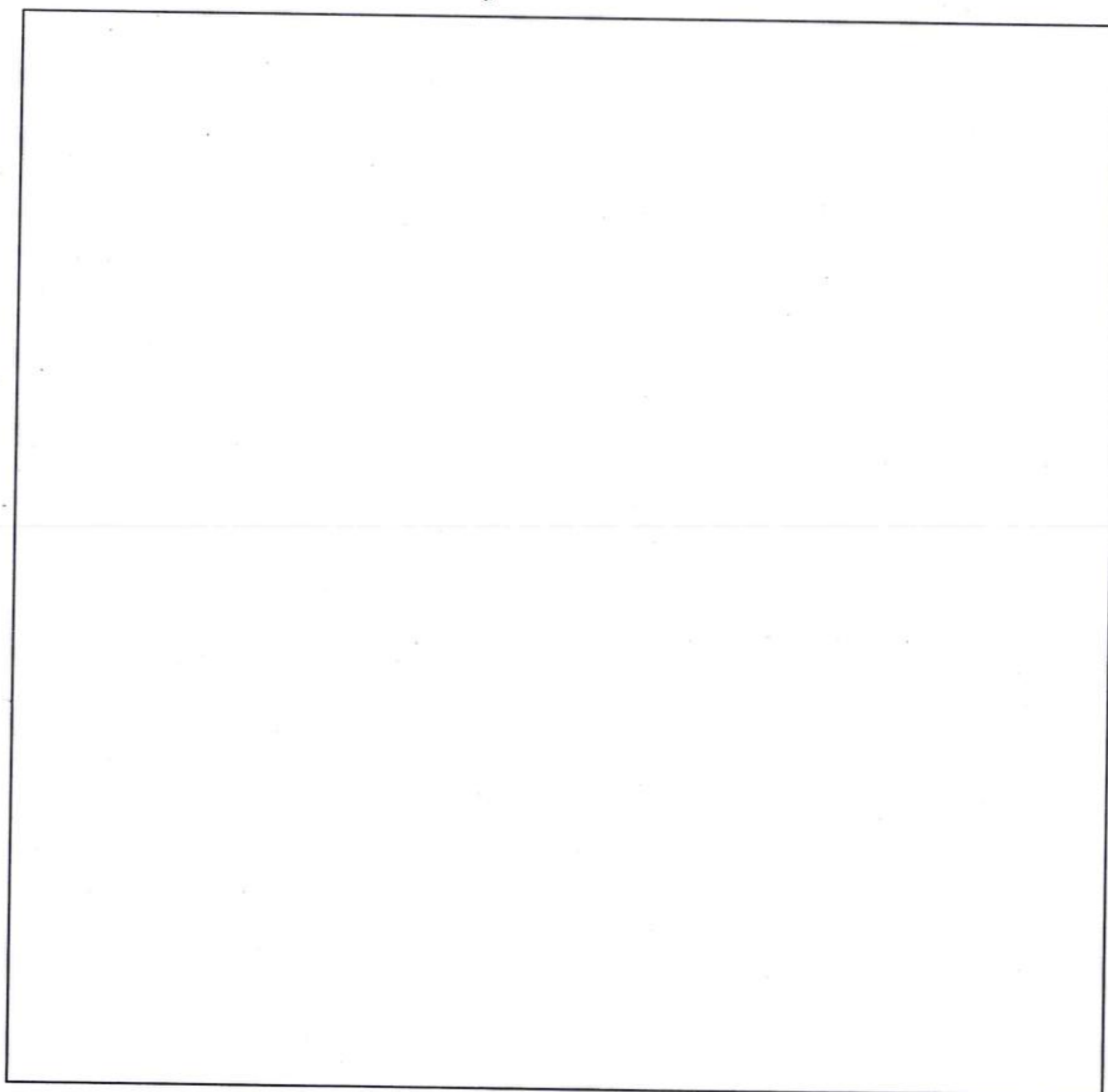
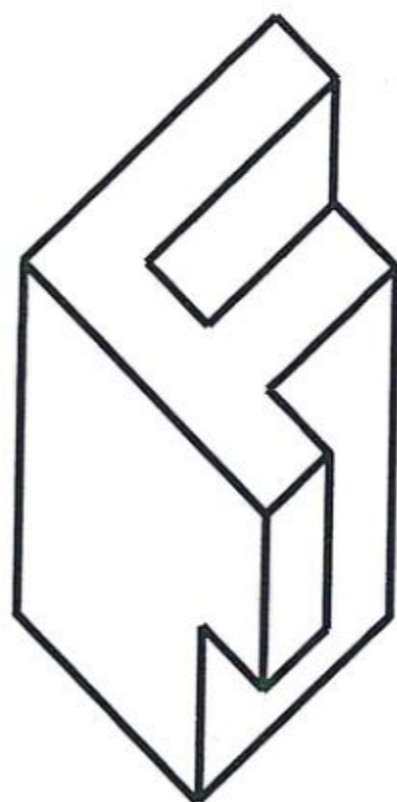
Bird's eye view

Q.9 A triangular object is placed perpendicular to a mirror as shown below. Draw the reflected image of the object as seen in the mirror. (20 Marks)



Q.10 Draw a complementary form to the three dimensional figure given below such that the combined resultant form makes a cube.

(20 Marks)



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SECTION D : Imagination and Aesthetic Sensitivity (Maximum Marks: 60)

This section contains **THREE** questions. Each question carries **20** marks.

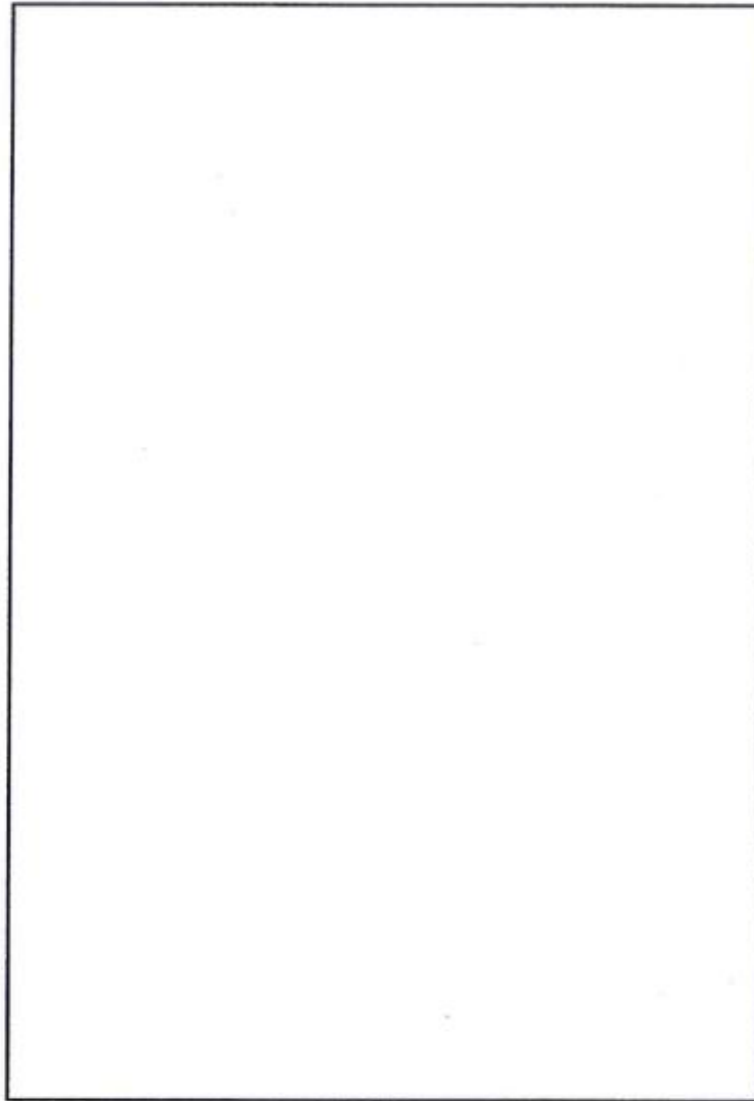
Q.11 Write a script for a dialogue between **Glass** and **Wood** showcasing their individual strengths, weaknesses and possibilities of collaboration.

(10 × 2 = 20 Marks)

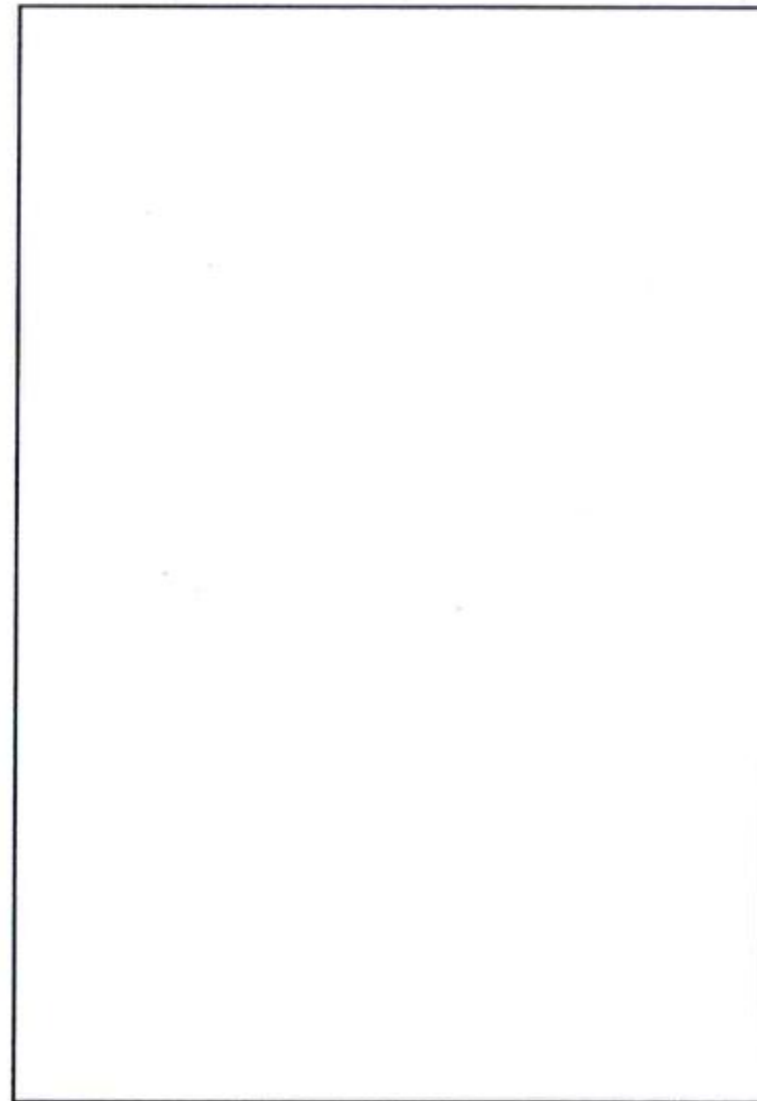
Glass:
Wood:
Glass:
Wood:
Glass:
Wood:
Glass:
Wood:
Glass:
Wood:

Q.12 Based on the themes listed below, in each of the following boxes, prepare **colour compositions** with thematic elements using a **minimum of three colours** in each of the boxes.

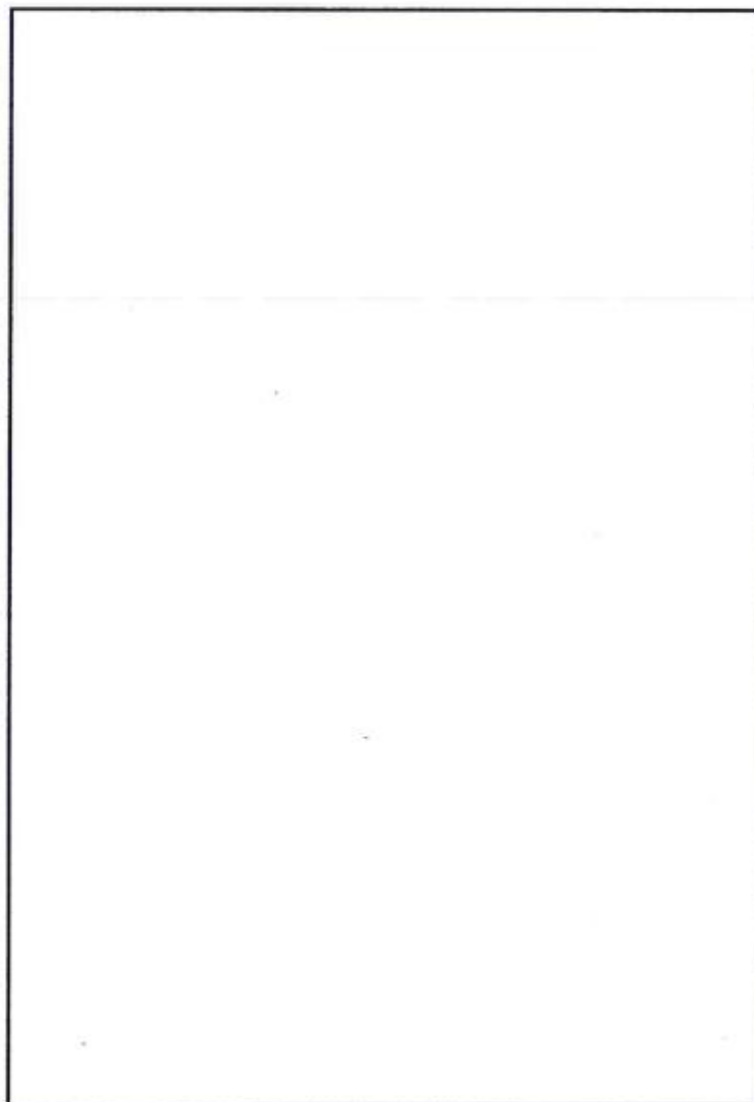
(20 Marks)



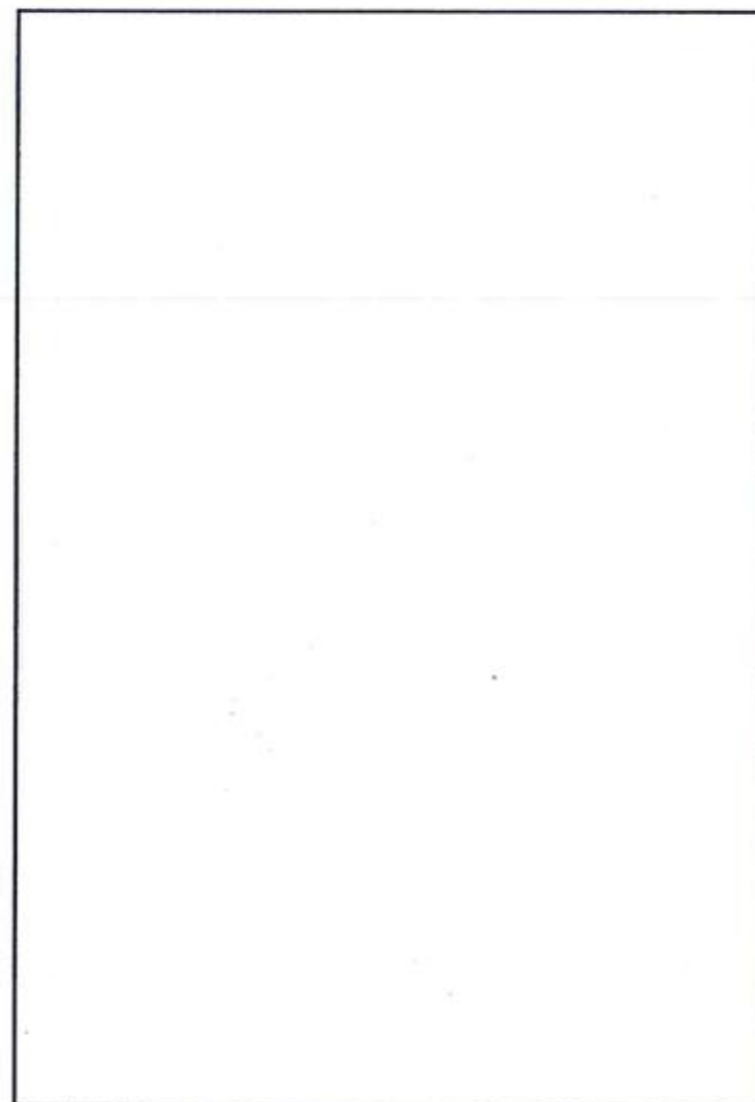
Cheerfulness



Monsoon

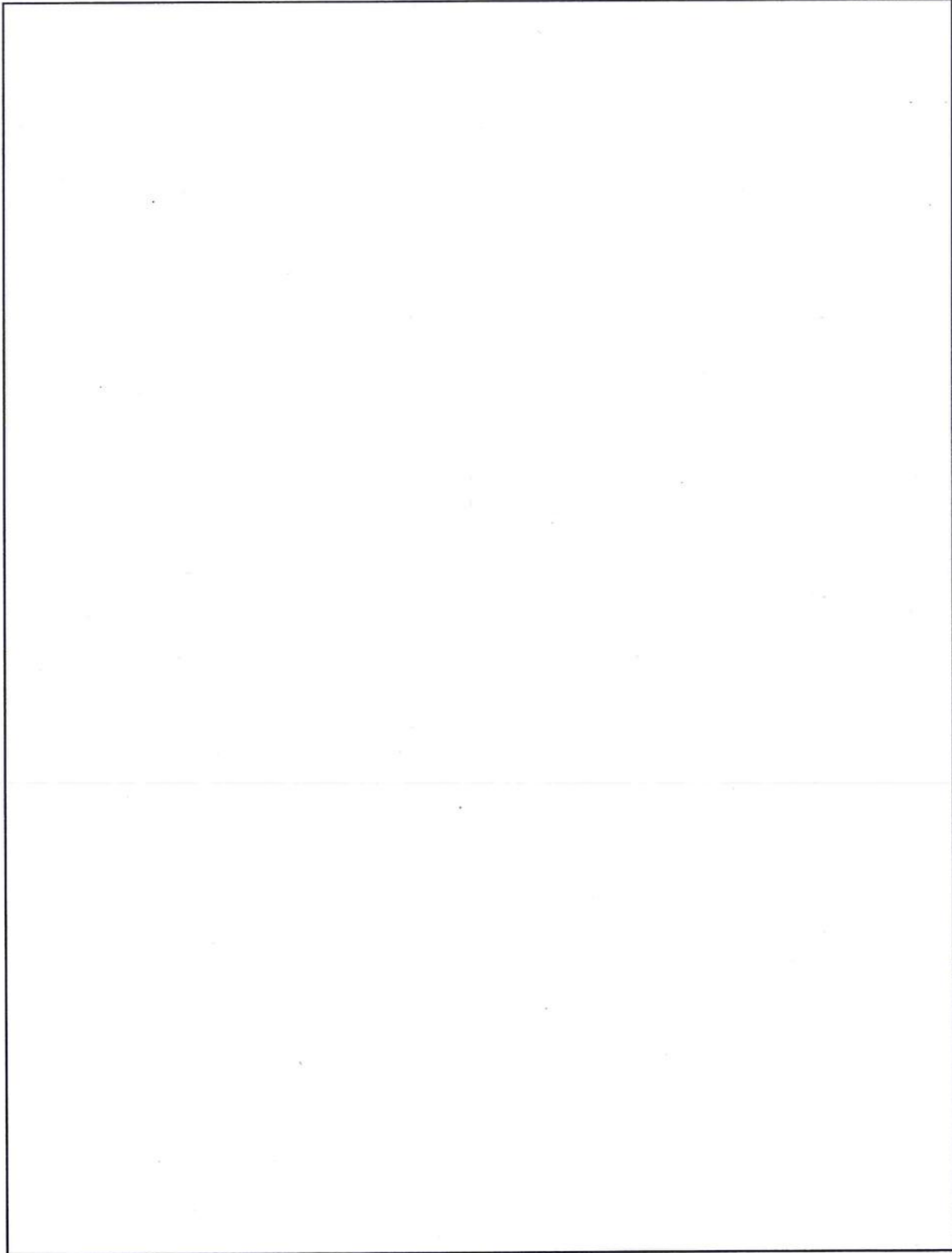


Confidence



Conflict

Q.13 Imagine **four** alternative uses of **old and unused overhead polymer water tank(s)** other than its original use. Explain your ideas through labelled sketches in the space given below. (20 Marks)



SECTION E : Freehand Drawing (Maximum Marks: 60)

This section contains **THREE** questions. Each question carries **20 marks**.

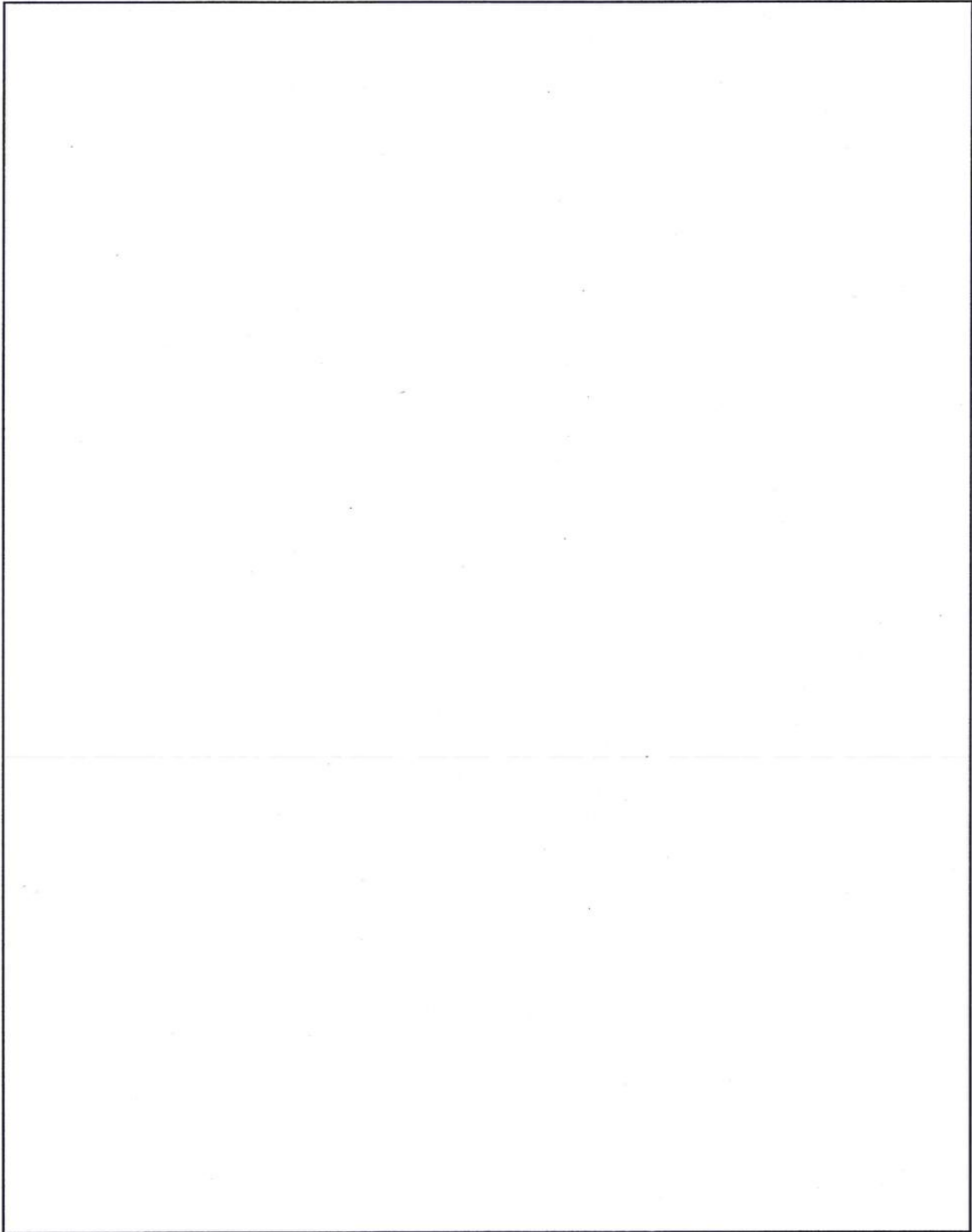
Q.14 Draw a sketch of a cash dispensing 'Automated Teller Machine (ATM)' along with its built in components highlighting shades and shadows.

(20 Marks)



Q.15 Assume that you are sitting on a side lower berth in a three tier sleeper coach of a train and viewing the opposite side window. Draw the interior view highlighting the detailed elements of the scene from the aforementioned view direction.

(20 Marks)

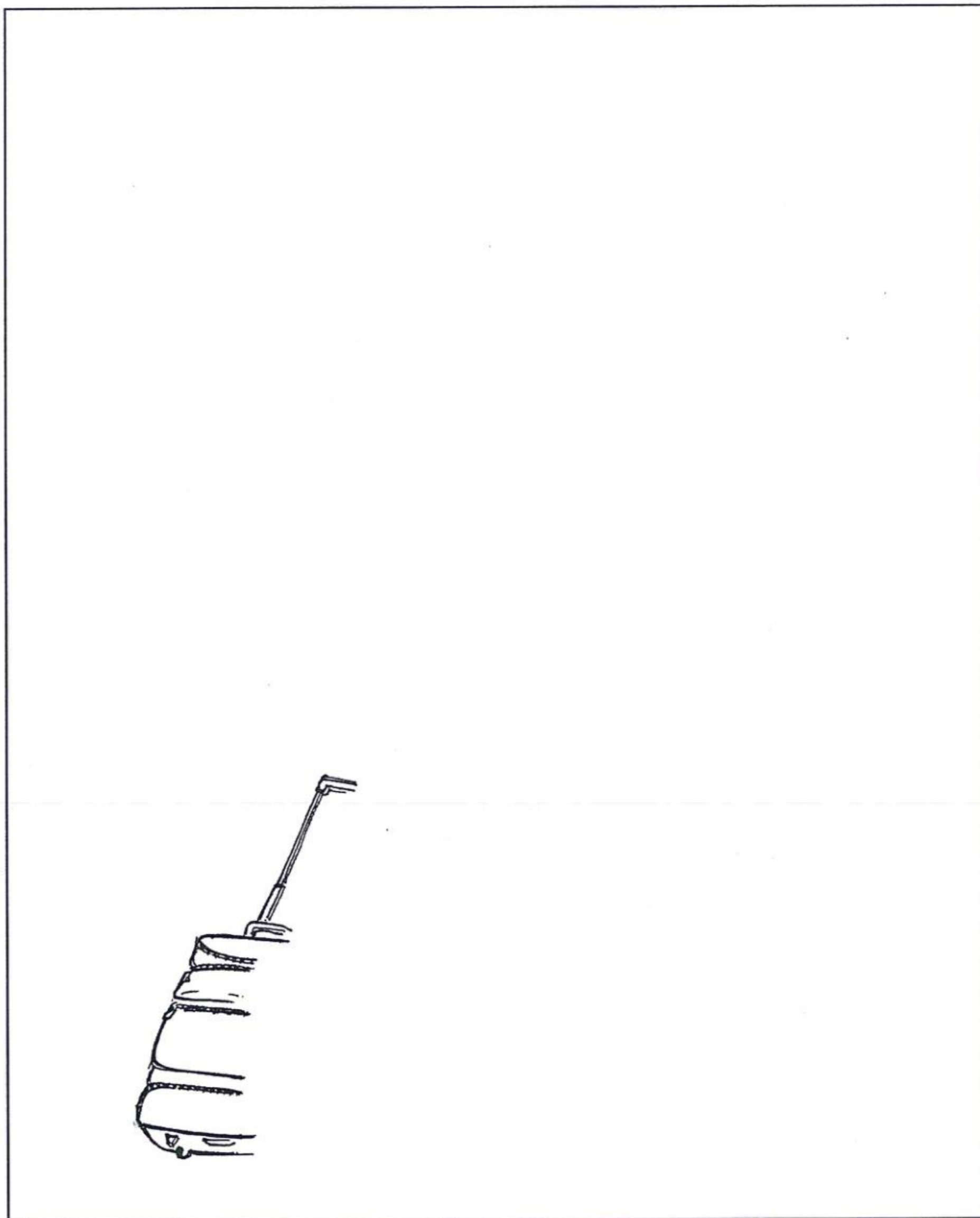


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Q.16 Complete the partial sketch of a trolley bag, along with human figures and other associated elements in foreground or background.

(20 Marks)



END OF THE QUESTION PAPER

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SPACE FOR ONLY ROUGH WORK

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SPACE FOR ONLY ROUGH WORK

SPACE FOR ONLY ROUGH WORK

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SPACE FOR ONLY ROUGH WORK

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Section-wise Distribution of Marks

Sections	Question No.	Page No.	Maximum Marks	Marks Obtained
Section A (Architectural Awareness)	Q. 1	3-4	30	
	Q. 2	5	10	
	Q. 3	5	10	
	Q. 4	6	10	
Section B (Geometrical Drawing)	Q. 5	7	20	
	Q. 6	8	20	
	Q. 7	9	20	
Section C (Three Dimensional Perception)	Q. 8	10	20	
	Q. 9	11	20	
	Q. 10	12	20	
Section D (Imagination and Aesthetic Sensitivity)	Q. 11	13	20	
	Q. 12	14	20	
	Q. 13	15	20	
Section E (Freehand Drawing)	Q. 14	16	20	
	Q. 15	17	20	
	Q. 16	18	20	
TOTAL MARKS			300	