

A-2017

3448

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

A-2017

3448

NAME: _____

ROLL NO: _____

ALL INDIA RANK: _____

CATEGORY: _____

CATEGORY RANK (IF APPLICABLE): _____

EXAMINATION CENTRE: _____

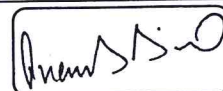
I HAVE READ ALL THE INSTRUCTIONS AND SHALL ABIDE BY THEM

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



This Page is kept blank intentionally

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

- | | |
|-------------------------------------|--------------------------------------|
| ☐ I M Pei | ☐ Renzo Piano |
| ☐ Tadao Ando | ☐ Jean Nouvel |

(iii) In a **colour system**, the complementary harmony is achieved by using the combination of

- | | |
|---|---|
| ☐ Red and Yellow | ☐ Yellow and Green |
| ☐ Red and Green | ☐ 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

- | | |
|--|--|
| ☐ Islamic Architecture | ☐ Buddhist Architecture |
| ☐ Egyptian Architecture | ☐ Roman Architecture |

(vi) The instrument that measures **wind speed** is known as

- | | |
|------------------------------------|-------------------------------------|
| ☐ Barometer | ☐ Lux meter |
| ☐ Altimeter | ☐ Anemometer |

- (vii) The material that can be used on the interior walls of a cinema hall for **sound absorption** is
- | | |
|--|--|
| ☐ Ceramic Tile | ☐ Stainless Steel Panel |
| ☐ Frosted Glass | ☐ Gypsum Board |
- (viii) The most **energy efficient** light source for building interiors is
- | | |
|--------------------------------------|---------------------------------------|
| ☐ Fluorescent | ☐ CFL |
| ☐ LED | ☐ Incandescent |
- (ix) **'World Water Day'**, as designated by United Nations is celebrated on
- | | |
|-----------------------------------|-------------------------------------|
| ☐ 22 March | ☐ 8 November |
| ☐ 22 April | ☐ 5 June |
- (x) The animal figure featured in the **'Make in India'** logo is
- | | |
|--------------------------------|-------------------------------|
| ☐ Cow | ☐ Lion |
| ☐ Tiger | ☐ Bear |
- (xi) **'Keystone'** in the context of a built form refers to
- | | |
|--|--|
| ☐ Central top stone of an arch | ☐ Stone shelf for key rings |
| ☐ Stepping stone in front of door entry | ☐ 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
- | | |
|--------------------------------------|-------------------------------------|
| ☐ Chandrayaan | ☐ Mangalyaan |
| ☐ Aryabhata | ☐ Bhaskara |
- (xiii) Inside a building, the **cassette air conditioner** is located on
- | | |
|--|--------------------------------------|
| ☐ Wall plane | ☐ Window area |
| ☐ Ceiling plane | ☐ Door area |
- (xiv) In relation to the profession of architecture in India, COA refers to
- | | |
|--|--|
| ☐ Committee of Arts | ☐ Committee of Architects |
| ☐ Council of Architecture | ☐ Commission of Arts |
- (xv) The one among the following which is **NOT** a renewable energy source is
- | | |
|--------------------------------------|---------------------------------------|
| ☐ Wind power | ☐ Solar power |
| ☐ Tidal waves | ☐ 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	☐	(P) Blue – Green – Yellow
(B) Germany	☐	(Q) Red – White – Black
(C) Italy	☐	(R) Green – White – Red
(D) Ireland	☐	(S) Red – Black – Golden Yellow
(E) Yemen	☐	(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	☐	(P) Maharashtra
(B) Lavani dance	☐	(Q) Uttar Pradesh
(C) Kalaripayattu	☐	(R) Assam
(D) Chikan embroidery	☐	(S) Bihar
(E) Rongali Bihu Festival	☐	(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)		☐	(P) Yoga
(B)		☐	(Q) Blind
(C)		☐	(R) Psychiatry
(D)		☐	(S) Human Rights
(E)		☐	(T) Heavy Industries
			(U) Biopharmaceuticals

SECTION B: Geometrical Drawing (Maximum Marks: 60)

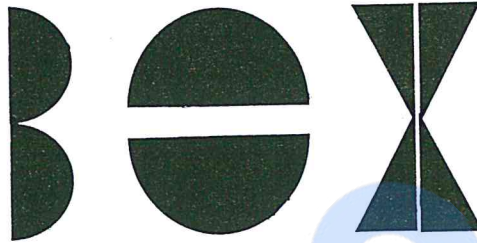
This section contains **THREE** questions. Each question carries **20** marks.

.....

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

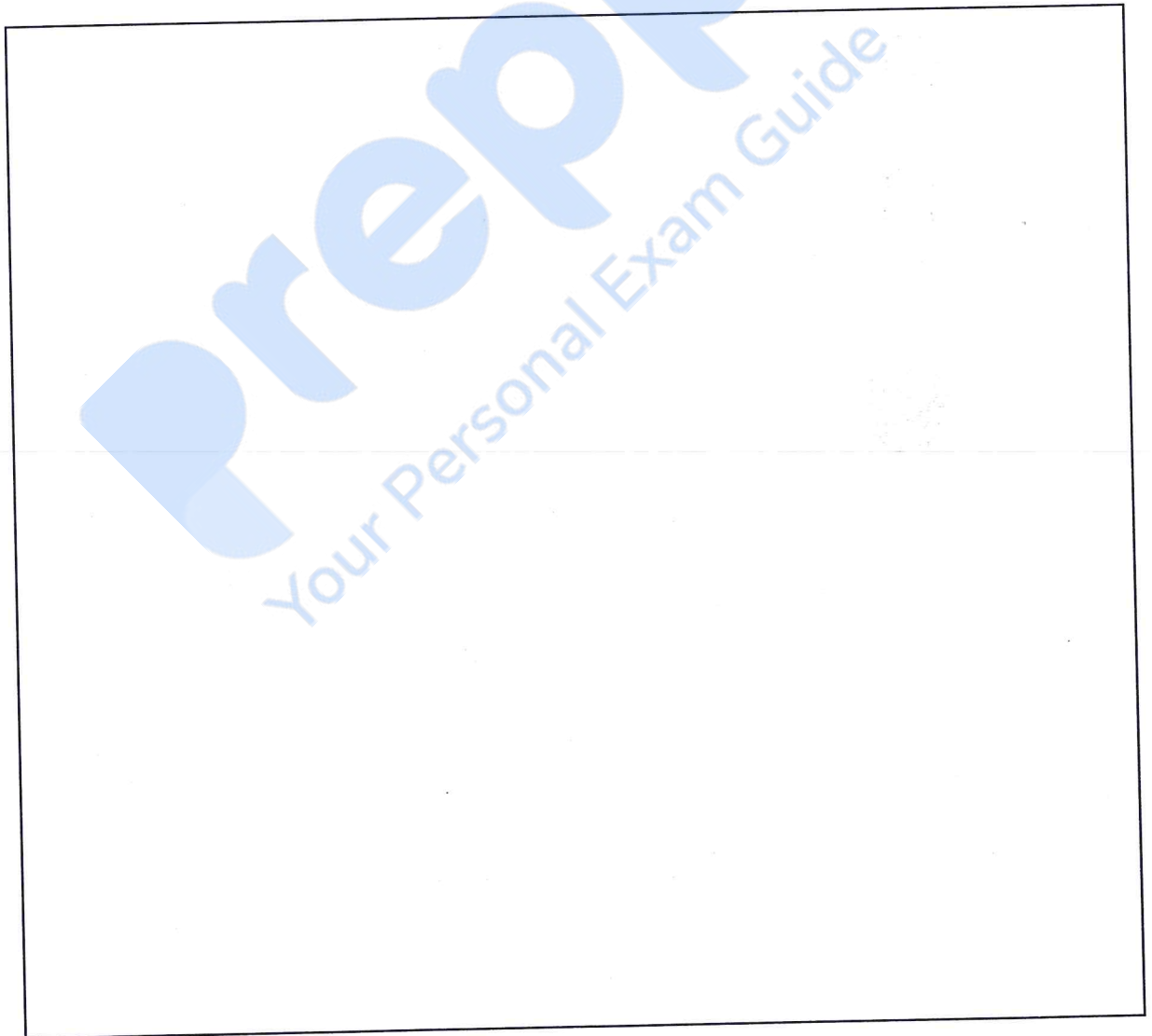


For example the word 'BOX' is expressed as



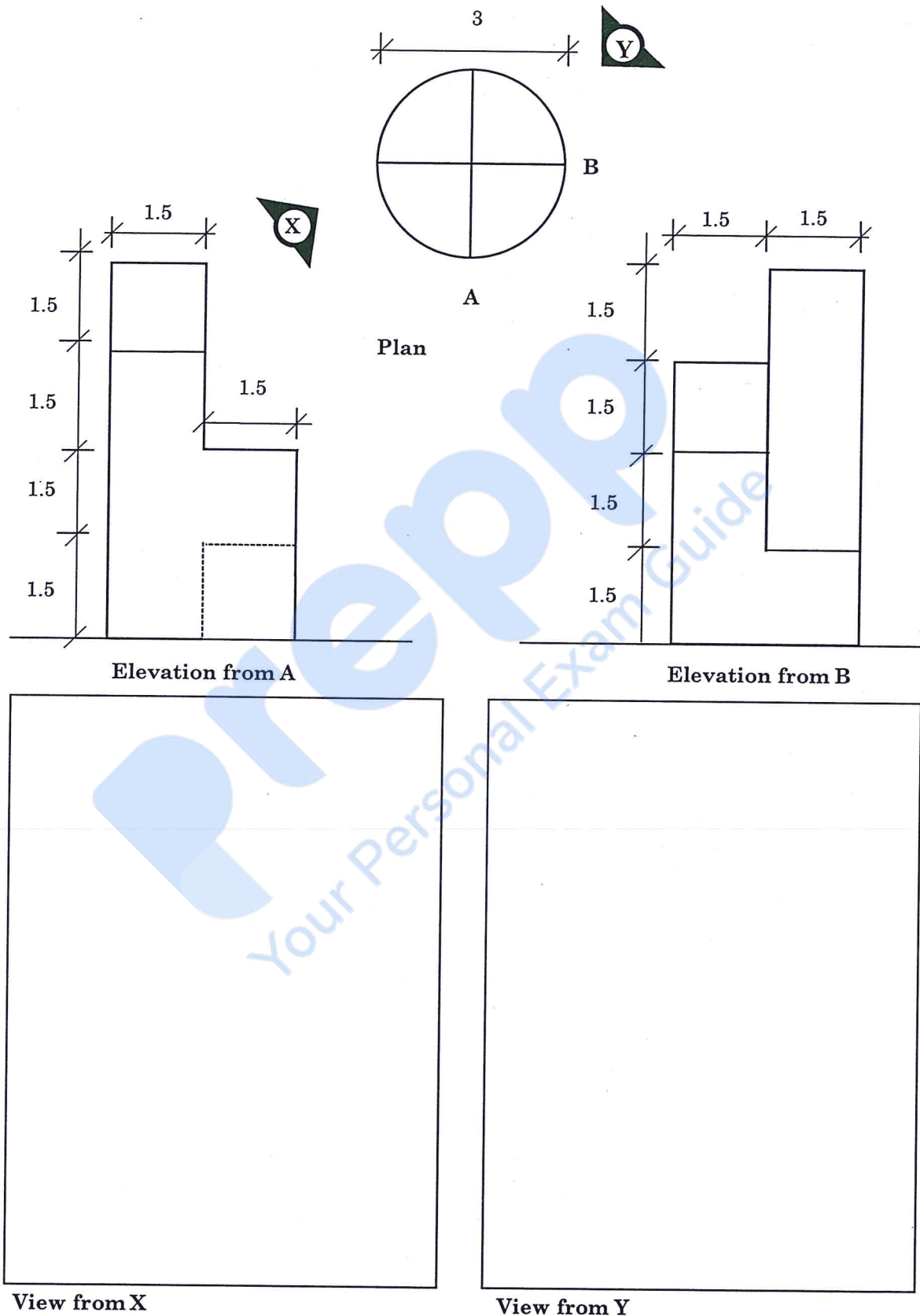
Compose the word 'MARKS' in a similar fashion using the space given below.

(20 Marks)



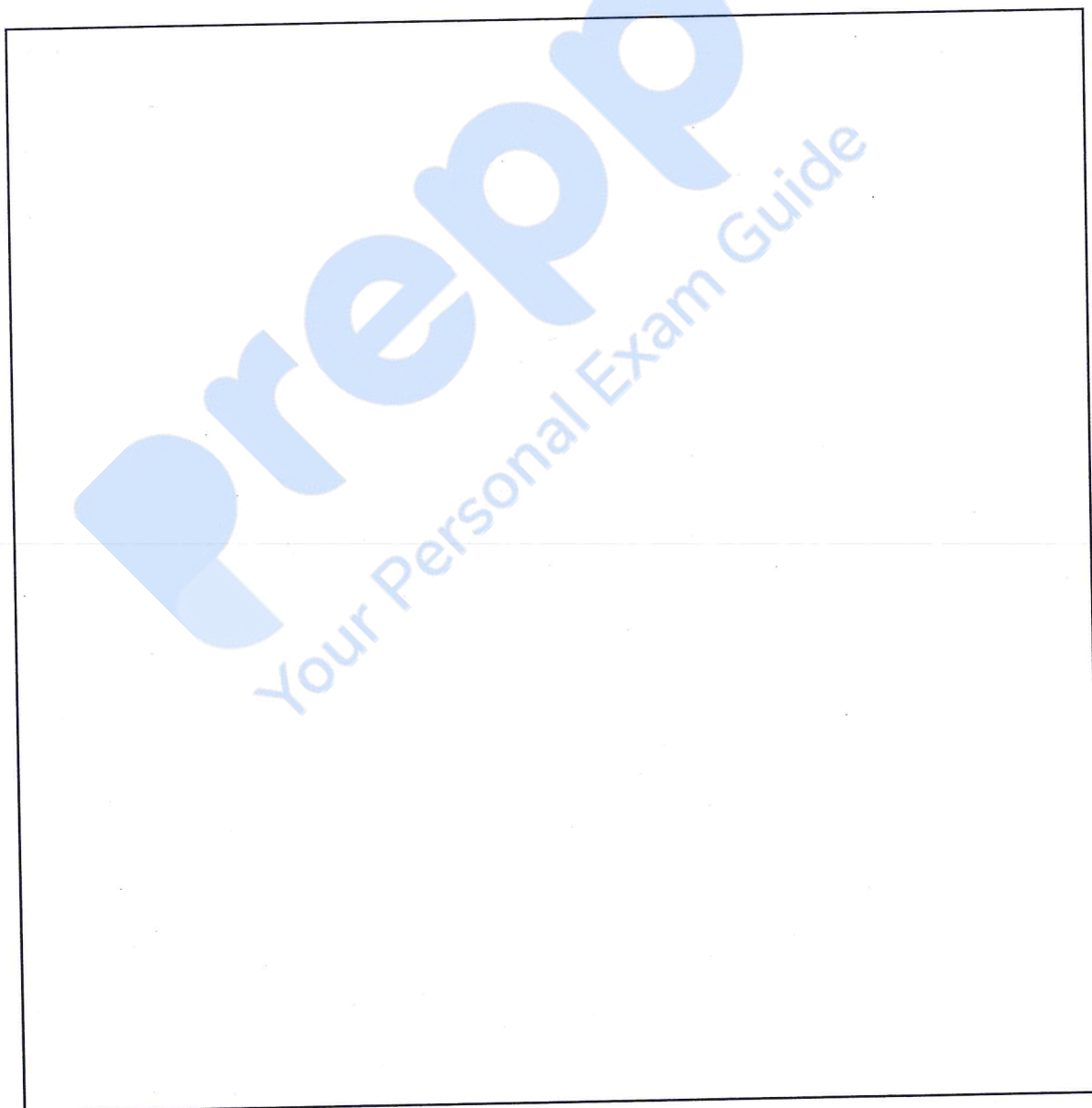
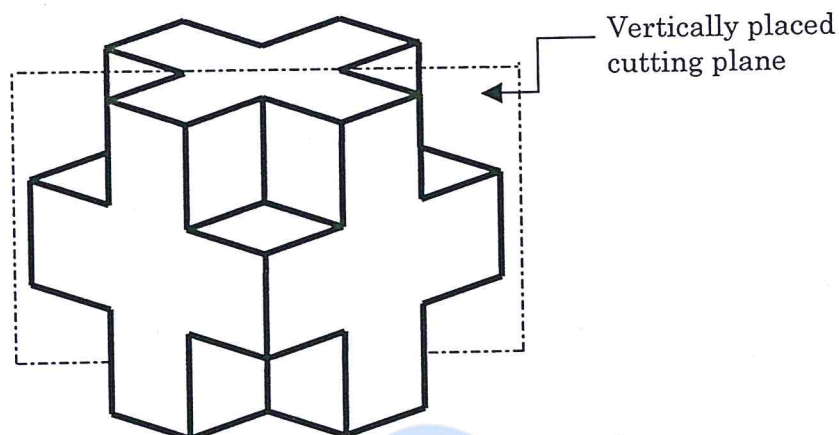
Q.6 Draw three dimensional views from points X & Y for the object given below as shown in plan, elevations from point A and point B along with dimensions in centimeter.

(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)



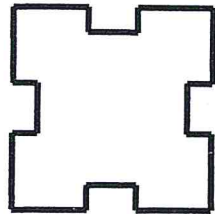
SECTION C: Three Dimensional Perception (Maximum Marks: 60)

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

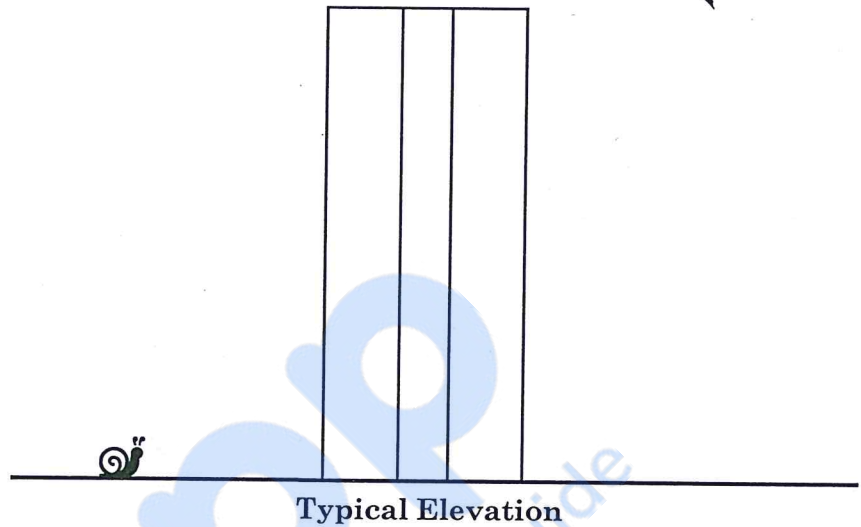
.....

- 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.

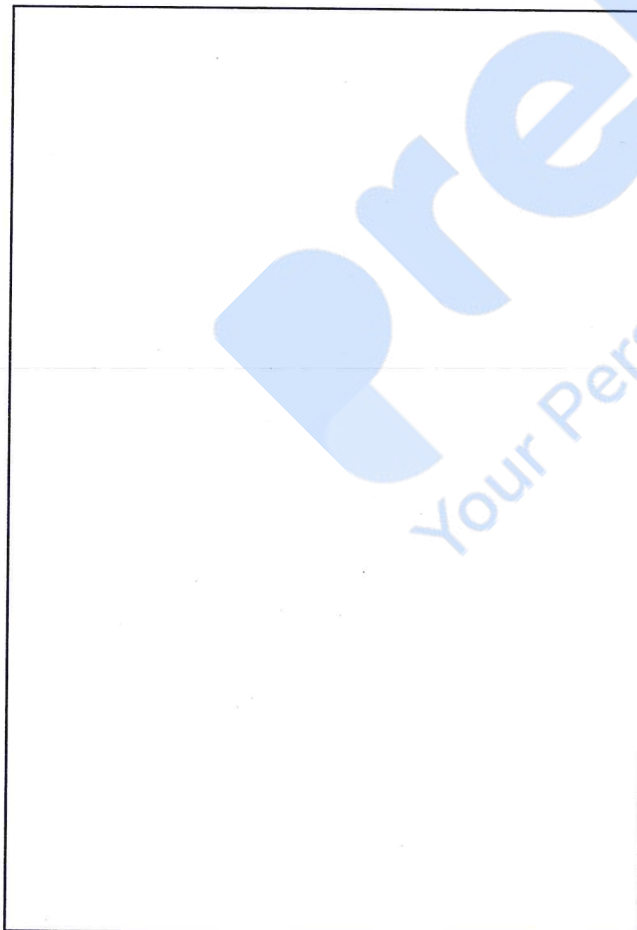
(20 Marks)



Top View



Typical Elevation

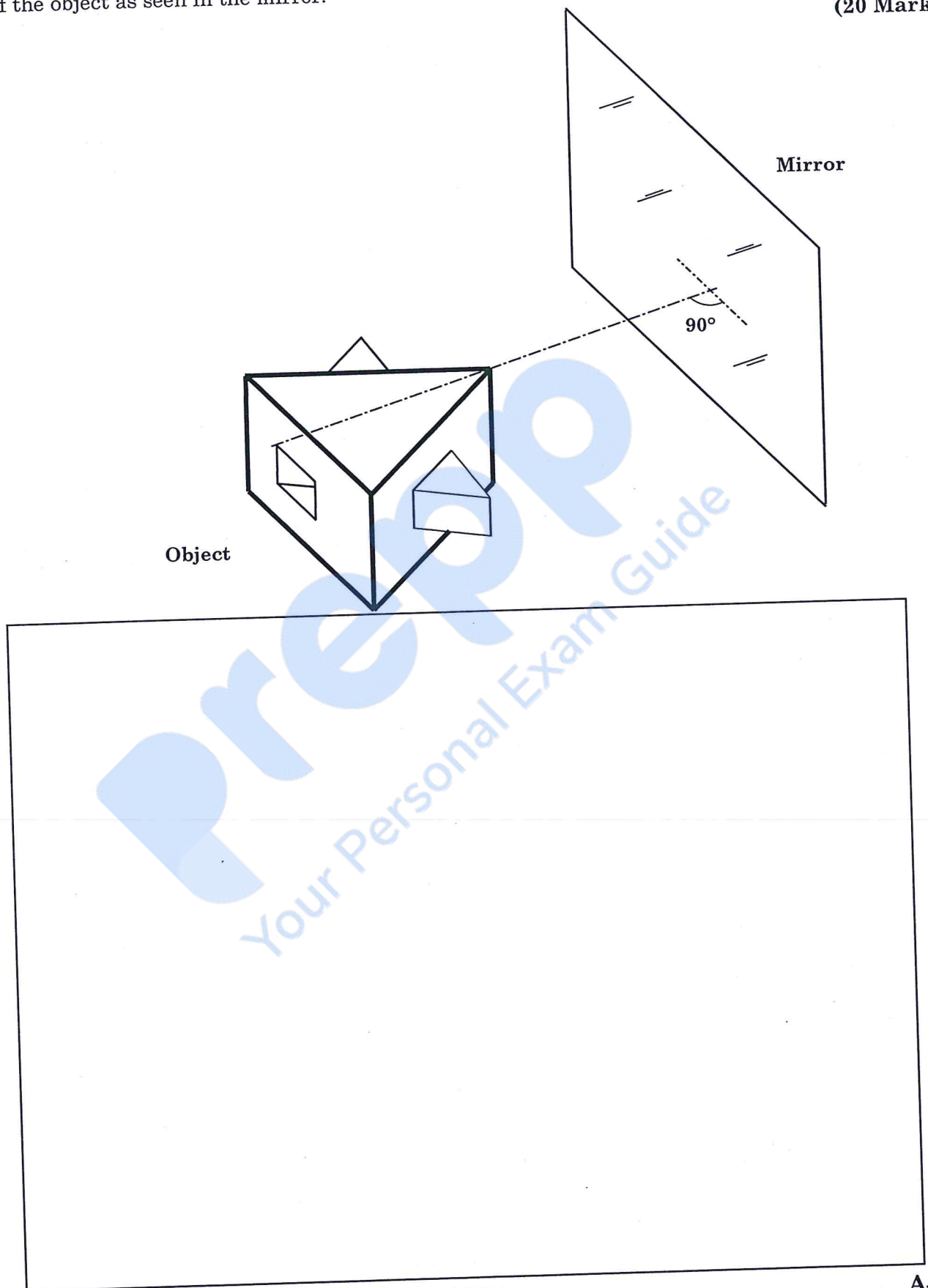


Snail's eye view



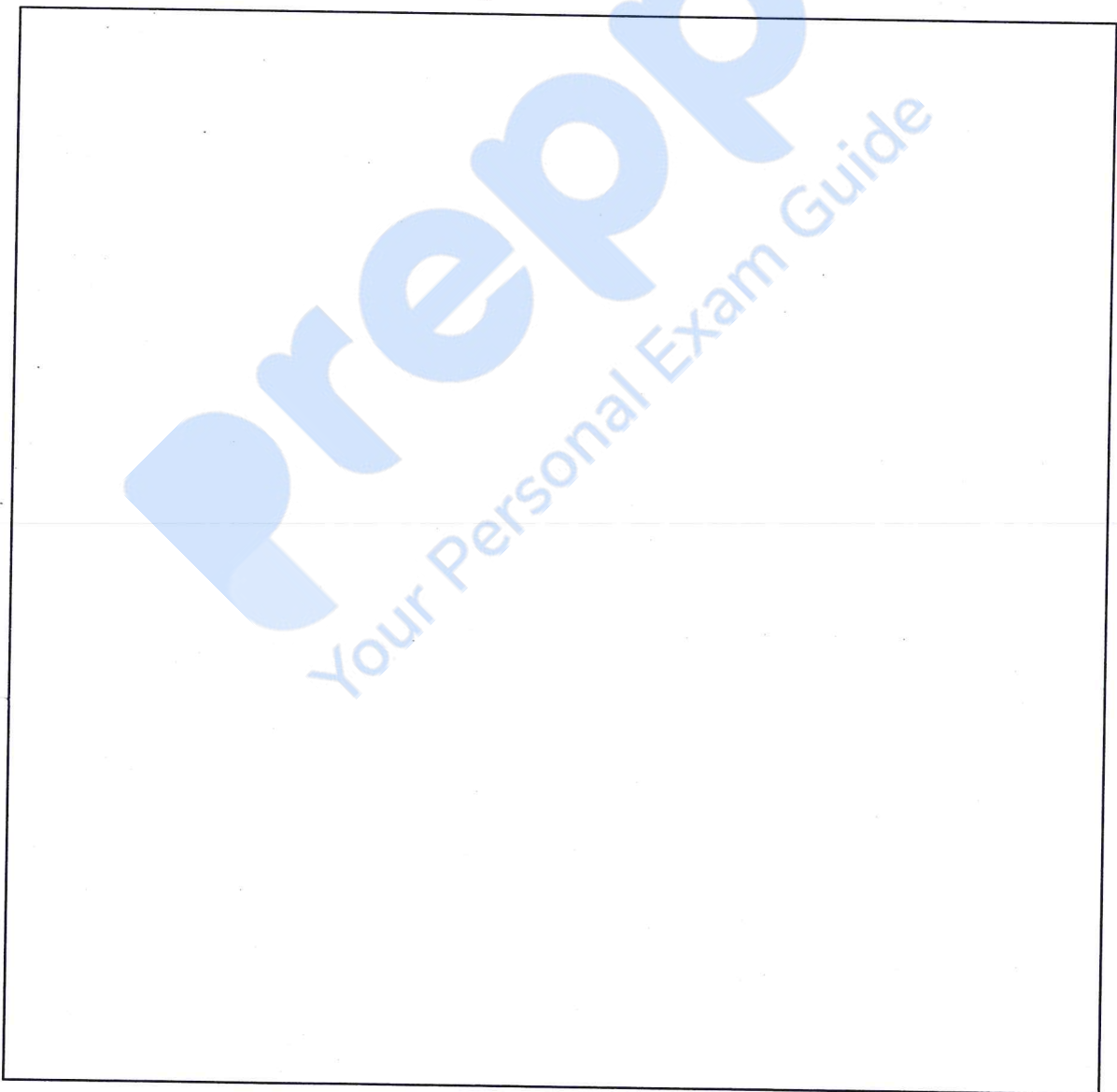
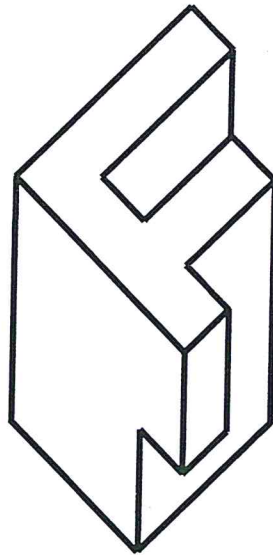
Bird's eye view

- 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)



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

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

.....

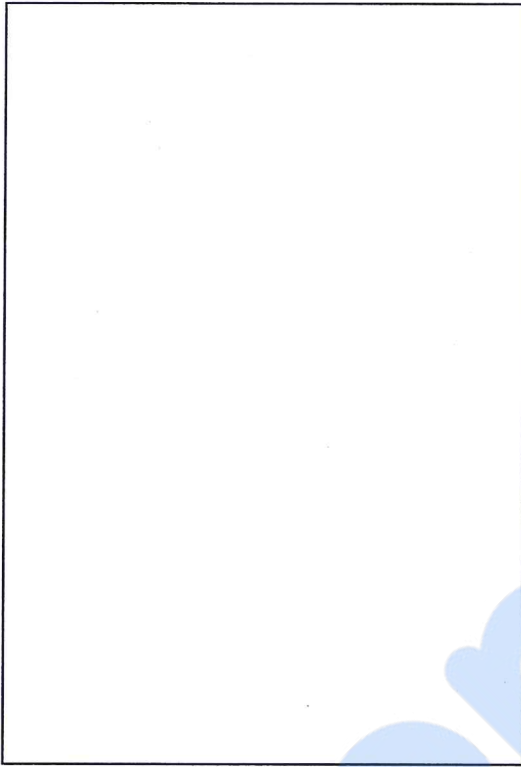
Q.11 Write a script for a dialogue between **Glass** and **Wood** showcasing their individual strengths, weaknesses and possibilities of collaboration.

(10 × 2 = 20 Marks)

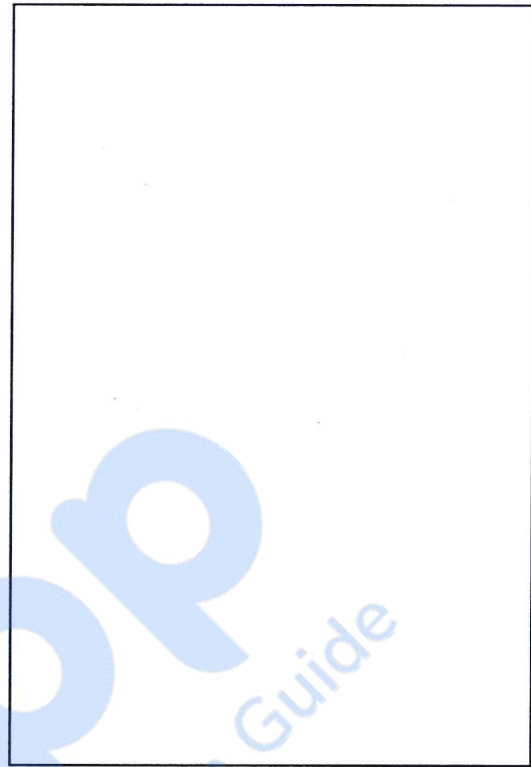
Glass:
Wood:
Glass:
Wood:
Glass:
Wood:
Glass:
Wood:
Glass:
Wood:

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.

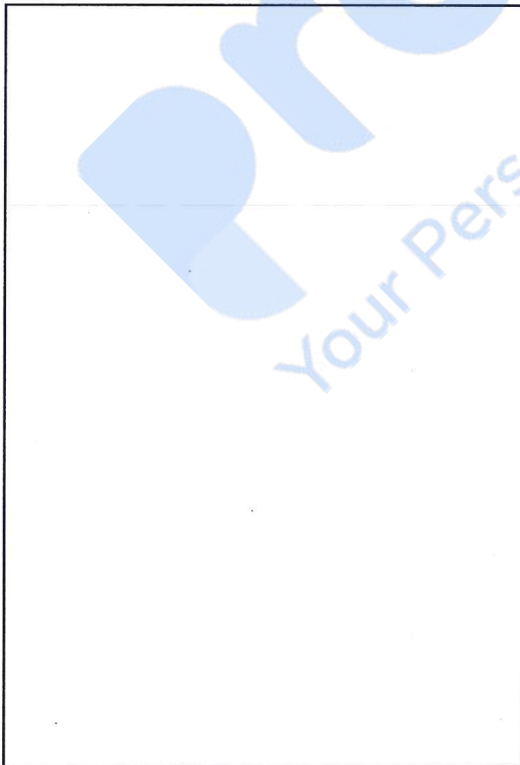
(20 Marks)



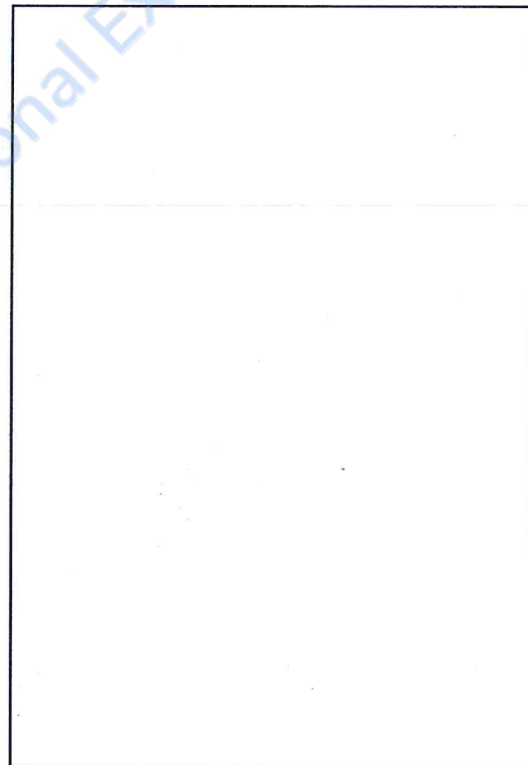
Cheerfulness



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**.

.....

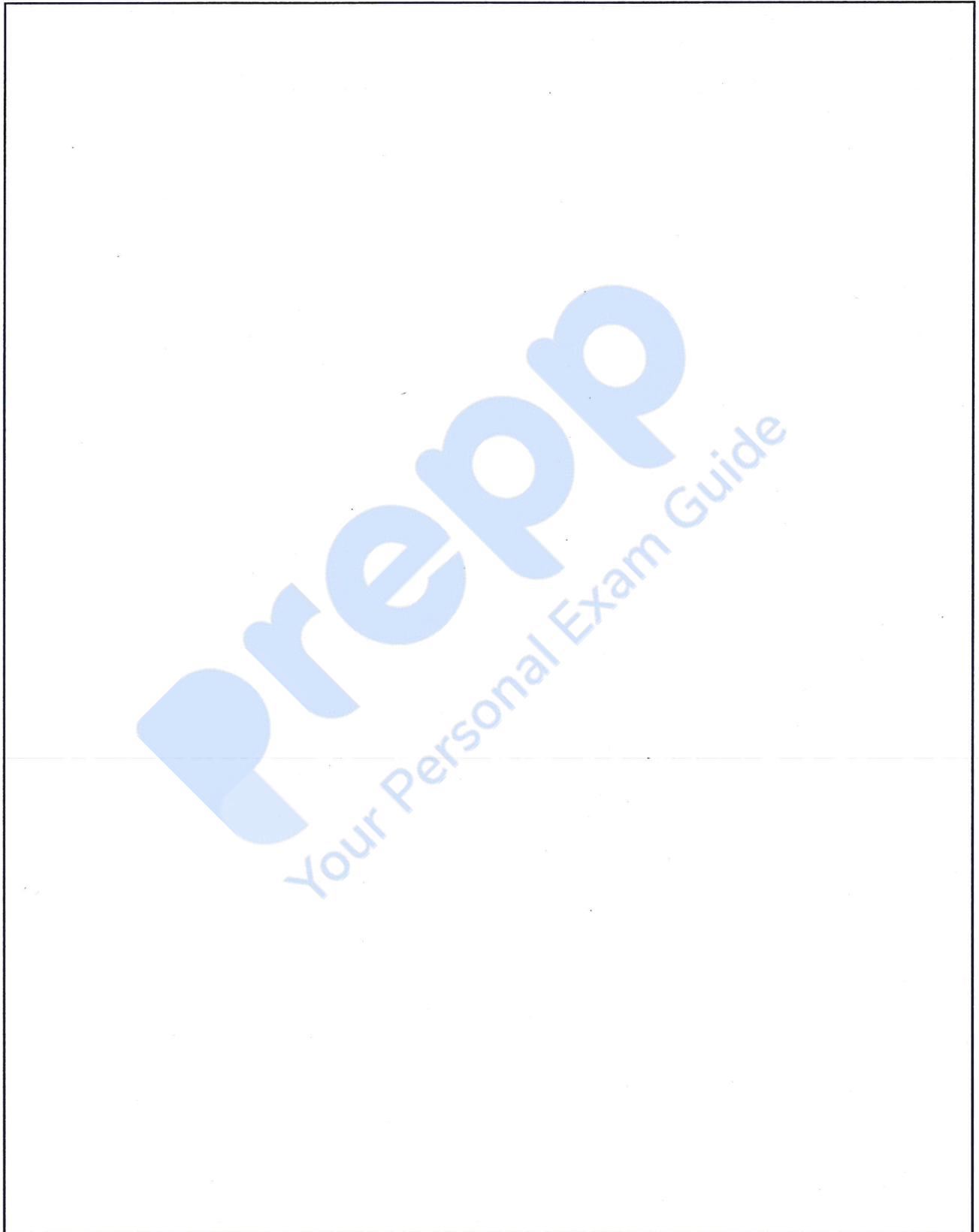
Q.14 Draw a sketch of a cash dispensing 'Automated Teller Machine (ATM)' along with its built in components highlighting shades and shadows.

(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)



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

SPACE FOR ONLY ROUGH WORK

prepp
Your Personal Exam Guide

SPACE FOR ONLY ROUGH WORK

prepp
Your Personal Exam Guide

SPACE FOR ONLY ROUGH WORK

prepp
Your Personal Exam Guide

SPACE FOR ONLY ROUGH WORK

prepp
Your Personal Exam Guide

SPACE FOR ONLY ROUGH WORK

prepp
Your Personal Exam Guide

DO NOT WRITE ON THIS PAGE

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	