

2972

JEE (Adv) 2019
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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, JEE (Adv) 2019 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 the booklet and within the space provided beside/below each Question and nowhere else. Answers written in non-designated place 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: _____

JEE (ADV) 2019 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

Mukat

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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) Which amongst the four is presently the tallest building in India?

- The Kohinoor Square Tower I
- The Imperial II
- Lodha Bellissimo
- Orchid Enclave 2

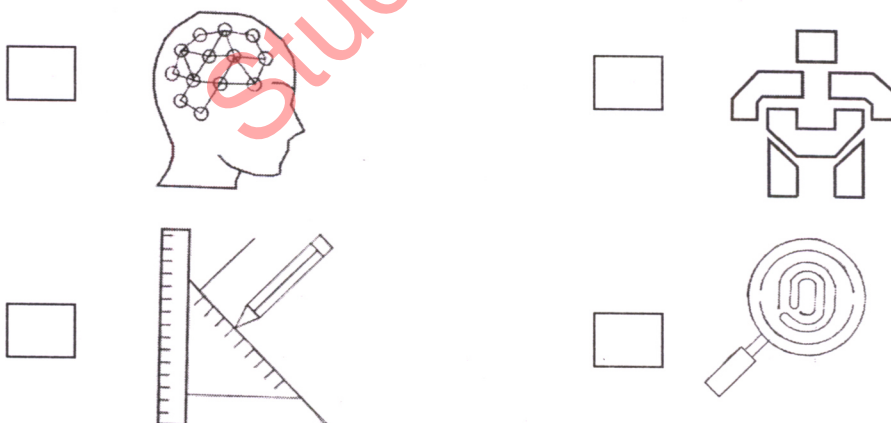
(ii) Which of the following building is the first NET ZERO ENERGY BUILDING in India?

- CII-Sohrabji Godrej Green Business Center, Hyderabad
- Unitech Signature Tower, Gurugram
- Indira Paryavaran Bhawan, New Delhi
- CMC Limited Building, Mumbai

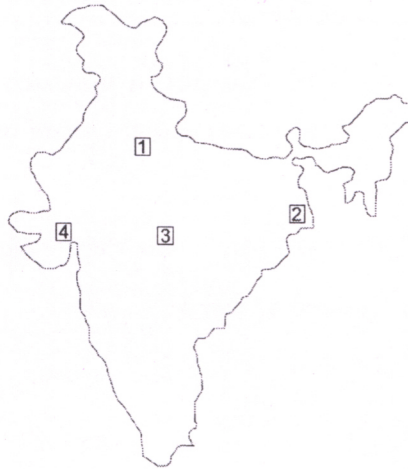
(iii) Which of the following is the name of a natural hazard event?

- Titli
- Saptarshi
- Padma
- Agni

(iv) Which logo is most appropriate for forensic science?

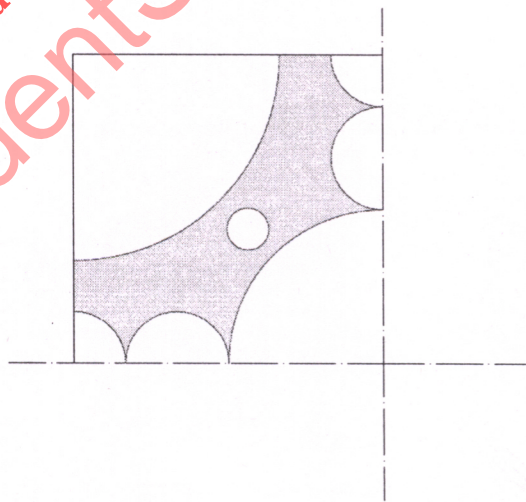


- (v) Numbers 1, 2, 3 and 4 represent four cities in the map. Match the numbers with the buildings designed by Charles Correa from the options given below.



- 1-National Crafts Museum, 2-City Center I, 3-Bharat Bhawan, 4-Gandhi Smarak Sangrahalaya
- 1-City Center I, 2-National Crafts Museum, 3-Bharat Bhawan, 4-Gandhi Smarak Sangrahalaya
- 1-Gandhi Smarak Sangrahalaya, 2-City Center I, 3-National Crafts Museum, 4-Bharat Bhawan
- 1-National Crafts Museum, 2-Gandhi Smarak Sangrahalaya, 3-Bharat Bhawan, 4-City Center I

- (vi) A square handkerchief after folding twice along the dotted lines shows the pattern given below. How many complete circles are there in the full handkerchief?



- Five Seven
- Nine Eleven

(vii) Which of the structural system is used in Signature Bridge, New Delhi?

Girder

Cable Stayed

Suspension

Arch

(viii) 'Rani ki vav' is a

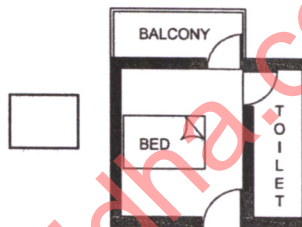
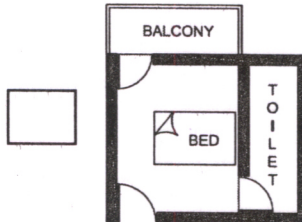
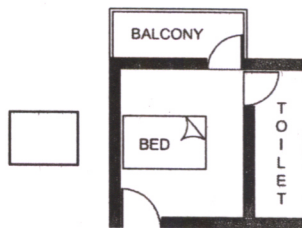
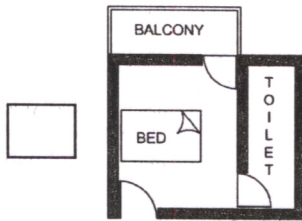
Bore well

Hot water spring

Step well

Lake

(ix) You are offered a hostel room with a bed, an attached toilet and a balcony. Which amongst the four options will you choose considering minimum circulation?



(x) Which of the following instrument works on the principle of repeated reflection of light?

Kaleidoscope

Microscope

Telescope

Stethoscope

(xi) The ancient city of Constantinople is presently known as

Alexandria

Istanbul

Cairo

Damascus

(xii) Which of the following is considered as a slow onset disaster?

Cyclone

Earthquake

Fire

Drought

(xiii) Which of the following is NOT a passive cooling technique?

Roof garden

Jali

Fountain

Desert cooler

(xiv) Who is the author of the book titled "My Name is Red"?

Ayn Rand

Arundhati Roy

Orhan Pamuk

Paulo Coelho

(xv) Select the flower that blossoms once in twelve years in the Western Ghats, India.

Neelakurinji

Solanum nigrum

Crinum lily

Amaryllis

Q.2 Match the TEMPLE in Column I with its location in Column II.

(5 × 2 = 10 Marks)

Column I		Column II
(A) Pantheon	<input type="checkbox"/>	(P) Japan
(B) Amun Karnak	<input type="checkbox"/>	(Q) Indonesia
(C) Angkor Wat	<input type="checkbox"/>	(R) Rome
(D) Borobudur	<input type="checkbox"/>	(S) Egypt
(E) Renkoji	<input type="checkbox"/>	(T) Nepal
		(U) Cambodia

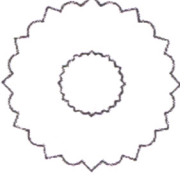
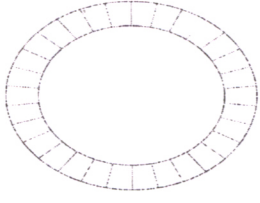
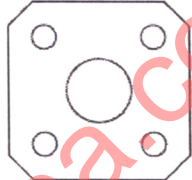
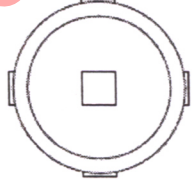
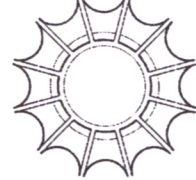
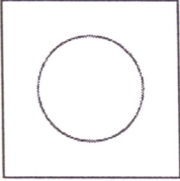
Q.3 Match the material in Column I with its appropriate application area in Column II.

(5 × 2 = 10 Marks)

Column I		Column II
(A) Bamboo	<input type="checkbox"/>	(P) Railway platform shed
(B) Gypsum board	<input type="checkbox"/>	(Q) Toilet
(C) Steel truss	<input type="checkbox"/>	(R) Footpath
(D) Paver block	<input type="checkbox"/>	(S) Water tank
(E) Ceramic tile	<input type="checkbox"/>	(T) Auditorium interior
		(U) Temporary structure

Q.4 Match the building in Column I with its corresponding schematic plan in Column II.

(5 × 2 = 10 Marks)

Column I	Column II
(A) Matri Mandir, Auroville <input type="checkbox"/>	(P) 
(B) Qutb Minar, New Delhi <input type="checkbox"/>	(Q) 
(C) Great Stupa, Sanchi <input type="checkbox"/>	(R) 
(D) Gol Gumbaz, Bijapur <input type="checkbox"/>	(S) 
(E) Taj Mahal, Agra <input type="checkbox"/>	(T) 
	(U) 

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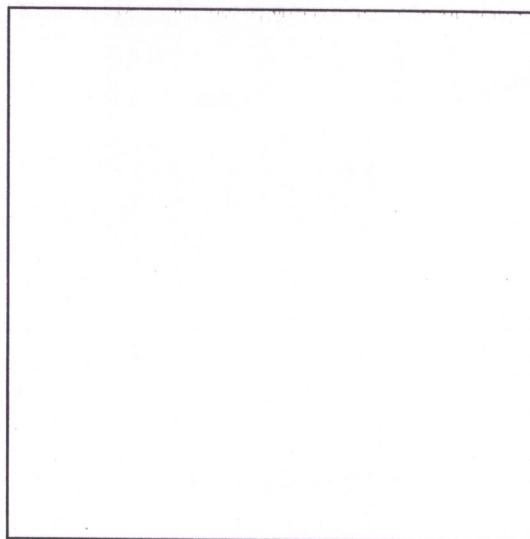
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SECTION B : Geometrical Drawing (Maximum Marks: 60)

This section contains **THREE (03)** questions. Each question carries **20 marks**.

.....

- Q.5 You are given a square piece of paper as shown below. Divide it into multiple parts using minimum three geometric shapes in such a way that the entire piece of paper is utilized.



Create a composition using all the parts in the blank space below.

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Q.6 Write the word 'QUAKE' expressing its literal meaning in the space provided below. A similar example with the word 'SPLIT' is shown below.

SPLIT

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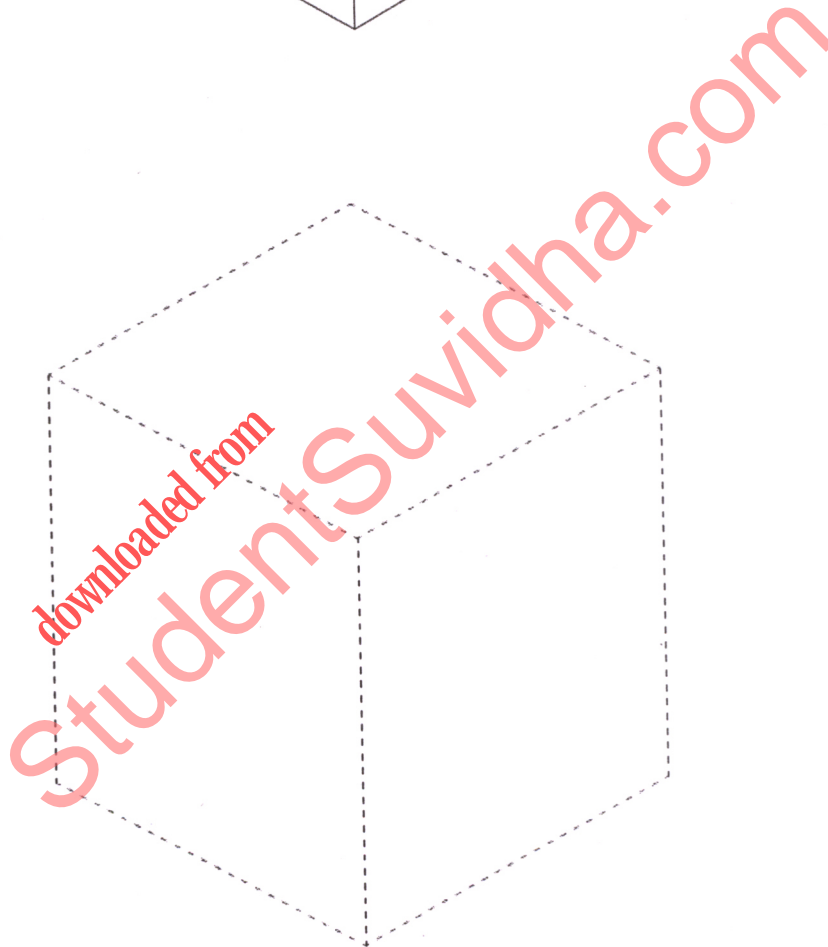
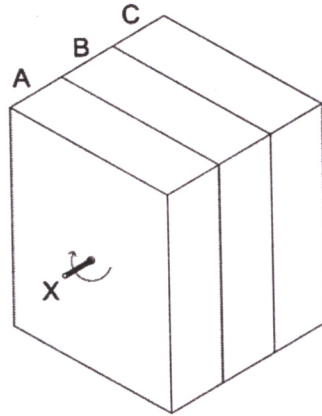
Q.7 Draw the given composition after enlarging it by three times.



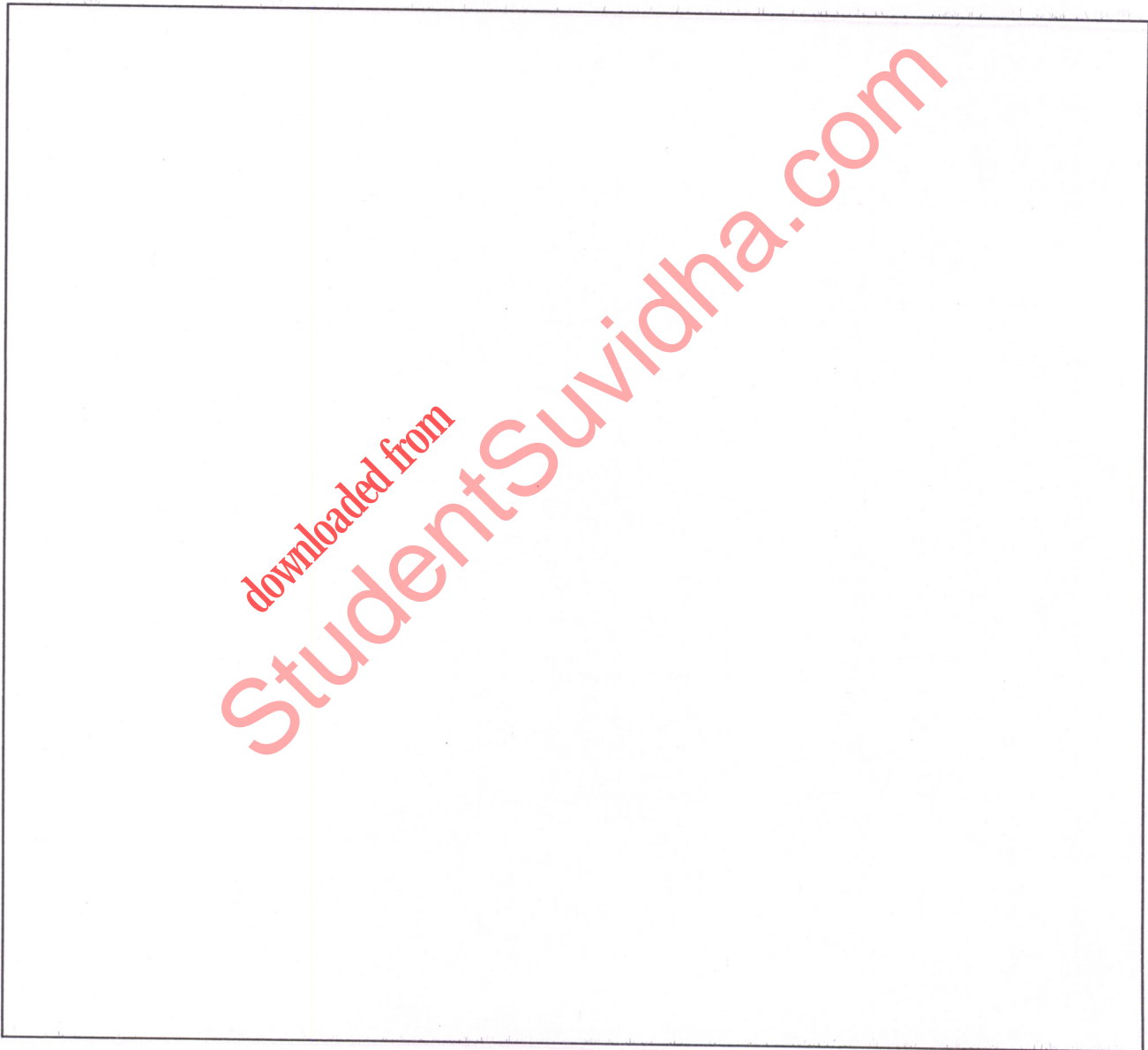
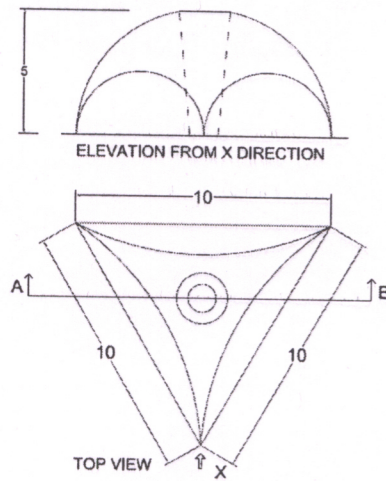
SECTION C : 3D Perception (Maximum Marks: 60)

This section contains **THREE (03)** questions. Each question carries **20 Marks**.

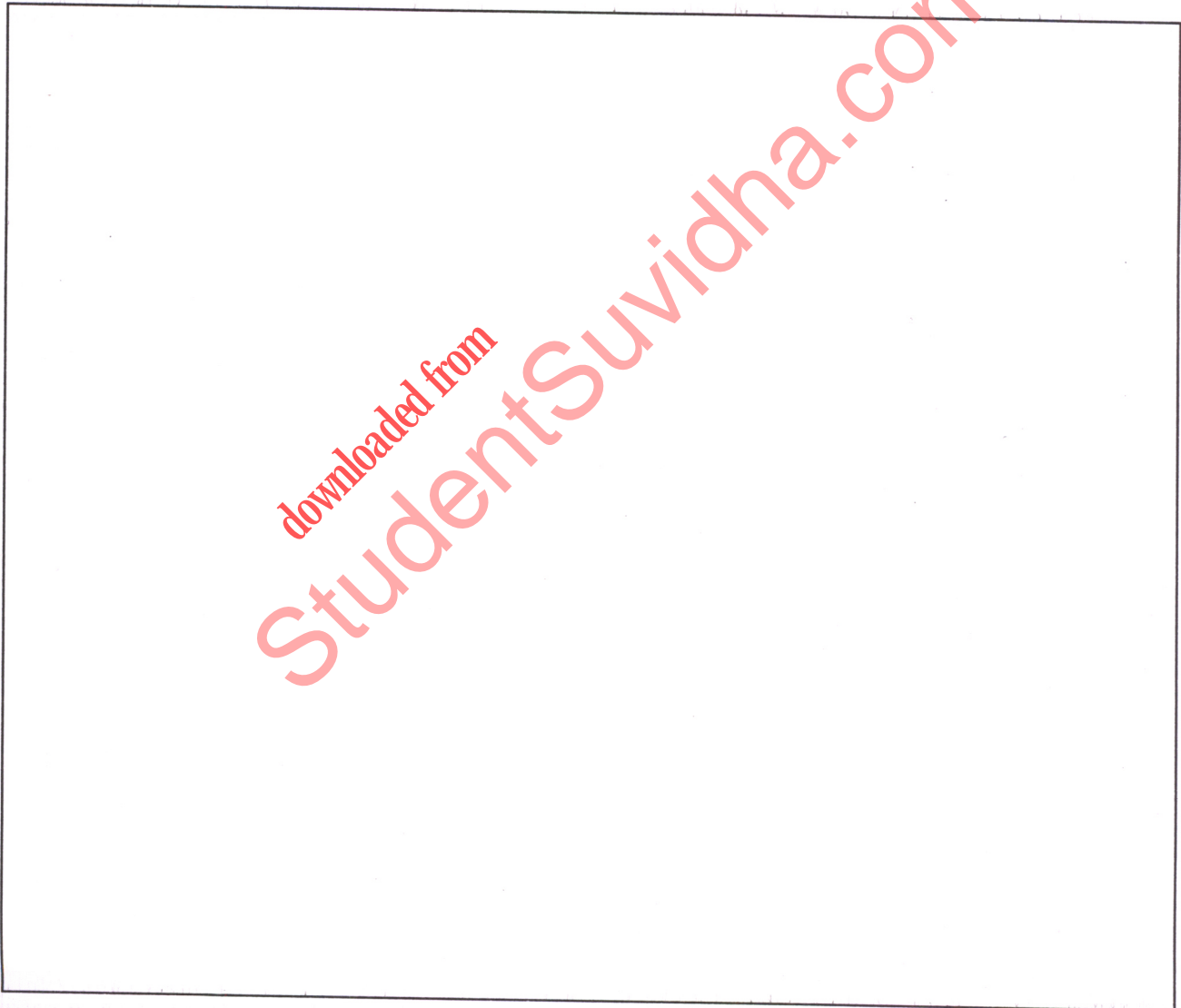
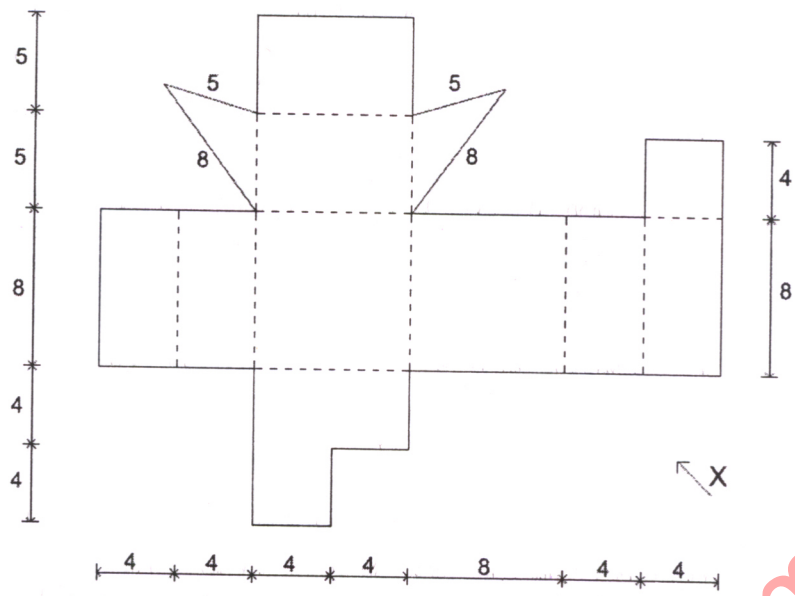
- Q.8 A cube is split into three blocks 'A', 'B' and 'C'. The initial position of the blocks is shown below. Blocks 'A' and 'C' are rotated against X axis by 45 degree. Draw the final view after rotation.



Q.9 The top view and the elevation from X direction of a solid object is given below. Draw the sectional view of the object when cut through AB.



Q.10 Draw a 3-dimensional object as viewed from X direction from the 2D surfaces given below. The dotted lines indicate folding references to generate the 3D object.



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

This section contains **THREE (03)** questions. Each question carries **20 marks**.

- Q.11 A popular car rental company chose to exchange business with an established software company. The logos of the two organizations are given below. Draw appropriate logos for both the companies reflecting their new business.



UBER



Microsoft



Q.12 An architect while designing a school is hesitant whether to put a 'ramp' or a 'staircase' to approach the first floor from the entrance lobby. Imagine a conversation between the 'ramp' and the 'staircase', each trying to convince the architect. They should equally participate in the conversation.

	The Architect's decision:

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Q.13 A thirsty crow is in search of water in a hot summer day and finally . . .

Complete the story sequentially by putting appropriate visuals in black & white in the spaces provided below.

1)	2)
3)	4)
5)	6)

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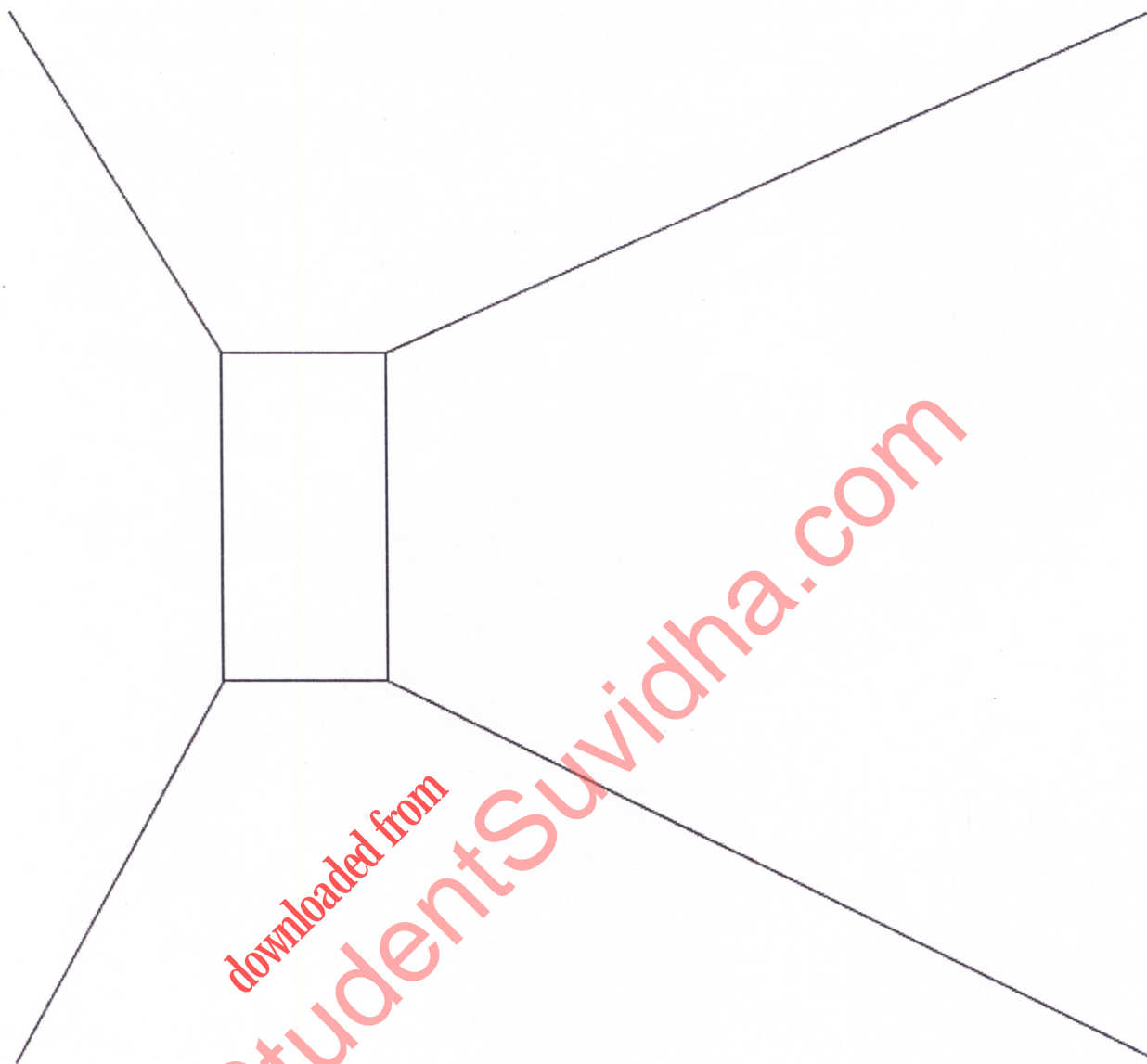
SECTION E : Freehand Drawing (Maximum Marks: 60)

This section contains **THREE (03)** questions. Each question carries **20 marks**.

Q.14 Make a color composition using different types of leaves of varied size and shape with 'TECHNOLOGY' as the theme. You may select maximum of three colors.



Q.15 Develop a scene considering the profile given below.



Q.16 Make a pencil sketch with shades and shadows of a road side eatery showing associated activities and people.



END OF THE QUESTION PAPER

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Section-wise Distribution of Marks

Sections	Question No.	Page No.	Maximum Marks	Marks Obtained
Section A (Architectural Awareness)	Q. 1	3-6	30	
	Q. 2	6	10	
	Q. 3	6	10	
	Q. 4	7	10	
Section B (Geometrical Drawing)	Q. 5	8	20	
	Q. 6	9	20	
	Q. 7	10	20	
Section C (Three Dimensional Perception)	Q. 8	11	20	
	Q. 9	12	20	
	Q. 10	13	20	
Section D (Imagination and Aesthetic Sensitivity)	Q. 11	14	20	
	Q. 12	15	20	
	Q. 13	16	20	
Section E (Freehand Drawing)	Q. 14	17	20	
	Q. 15	18	20	
	Q. 16	19	20	
TOTAL MARKS			300	