JEE (Adv) 2020 (AAT)		JEE (Adv) 2020 (AAT)	
Time: 3 hours	Maximum Marks: 300	NAME:	STATES OF STREET
READ THE INSTR	RUCTIONS CAREFULLY		
 GENERAL This sealed booklet is break the seal till you 	your Question Paper. Do not are told to do so.	ROLL NO:	
verify that the booklet the 16 questions along	aking the seal of the booklet, t contains 28 pages and that all g with the options are legible. bout any missing or torn sheet	JEE (ADV) 2020 RANK:	
in this booklet and ask booklet from the invig allowed after 15 minu	of torn sheet of for a replacement of the gilator. No replacement will be tes of the starting of the	CATEGORY:	
and other details in th	I Number, JEE (Adv) 2020 Rank the space provided and nowhere dentification mark of any type is	CATEGORY RANK (IF APPLICABLE):	
Answers are to be writing within the space provided the space are to be writing t	tten only in the booklet and ided beside / below each e else. Answers written in non-	EXAMINATION CENTRE:	
Blank spaces are provi rough work.	ided within this booklet for	I HAVE READ ALL THE INSTRUCTIONS AND SHALL	
 Do not deface this boo sheet from the bookle disqualification. 	oklet or detach or mutilate any et. Such acts lead to	ABIDE BY THEM	
The question paper ha	as five sections.	Signature of the Candidate	-
All the Questions are	compulsory.		
Total Marks Obtained:		Signature of the Invigilator after verification of identity and other details	F
In Numbers:			
In words:			
Signature of the Examir	ner with date		
Signature of the Scrutin	nizer with date		

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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.

0.1. This s	section contains 15 multiple choice ques Y ONE is correct. Mark the correct option	stions. Each question has four options, out of which with a tick mark.
		$(15 \times 2 = 30 \text{ Marks})$
(i)	The architectural marvel 'Taj Mahal' at	Agra is a
	Museum	Fort
	Mausoleum	Palace
(ii)	Which among the following materials po	ossesses similar binding property as cement?
	Lime	Brick
	Sand	Gravel
(iii)	Ratio of two consecutive higher order te number which is known as	rms in Fibonacci Sequence, approaches an irrational
	Golden Ratio	Pi
	Euler's number	Pythagoras' constant
(iv)	An Indian architect, who won the Pritzk	ter Architecture Prize in the year 2018 is
	Hafeez Contractor	Raj Rewal



Charles Correa

B V Doshi

(v) Which among the following is identical to 'Figure X'?

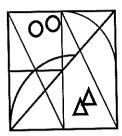
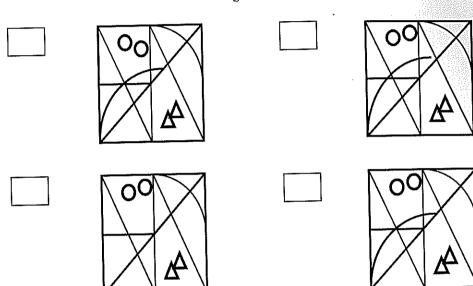
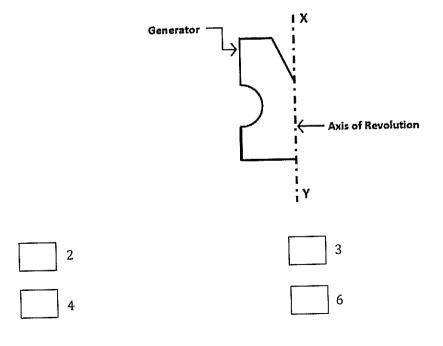


Figure X

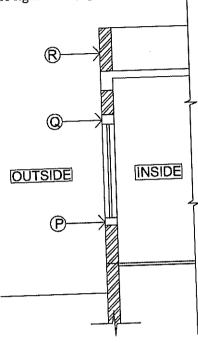


(vi) The number of curved surfaces obtained by rotating the generator (as shown in the figure below) about its axis of revolution X-Y, is



(vii) On	e hectare equals to	AAT Paper
	10,000 sq.mt.	100,000 sq.mt.
	1,000 sq.mt.	100 sq.mt
(viii) W he	which of the following architectural ma eritage list?	ster piece in India features in the UNESCO world
	Lotus Temple, New Delhi by Fa	ariborz Sahba
	The Complexe du Capitole, Cha	andigarh by Le Corbusier
	Jawahar Kala Kendra, Jaipur by	Charles Correa
	Matrimandir - Auroville, Puduo	cherry by Roger Anger
ix) Esc	calator is used in public buildings for	
	Vertical circulation	Horizontal circulation
	Fire protection	Beautification
x) Wh	nich among the following is NOT a type	e of air-conditioner?
	Window	Split
	Cassette	Disc
xi) Slo	ped roof DOES NOT protect the build	ling from
	Heavy rain	Snow fall
Г	Hail storm	Earthquake

(xii) A building wall section is presented in the figure below. Identify the building elements marked in the figure as P, Q and R.



- (P) Lintel (Q) Sill (R) Parapet

 (P) Sill (Q) Lintel (R) Parapet

 (P) Parapet (Q) Lintel (R) Sill

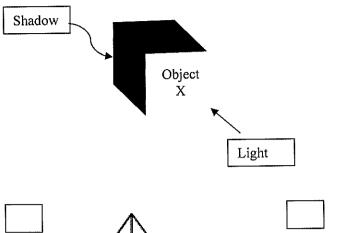
 (P) Sill (Q) Parapet (R) Lintel
- (xiii) The World Habitat Day is celebrated every year on

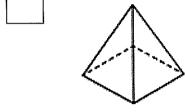
First Monday of October
Second Monday of October
First Monday of November
Second Monday of November

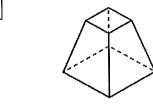


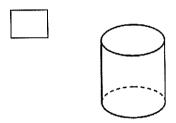


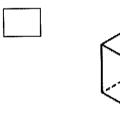
(xiv) An object-X and its shadow against the light direction are shown as top view. Identify the object –X from the options given below.











(xv) Identify the appropriate pattern following the sequence

P) \	P)	\ \	Q) \
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Match the logo in Column I with the respective Government of India mission/ scheme in $(5 \times 2 = 10 \text{ Marks})$ Q.2 Column II

Column I	Column II
(A)	(P) Smart City
(B)	(Q) Digital India
(C)	(R) National Higher Education Mission
(D)	(S) Skill India
(E)	(T) Mid-day meal
	(U) Make in India

Match the silhouette of the building in ${\bf Column}\ {\bf I}$ with its respective location in ${\bf Column}\ {\bf II}$ Q.3 $(5 \times 2 = 10 \text{ Marks})$

Column I	Column II
(A)	(P) Hyderabad
(B)	(Q) Kuala Lumpur
(C)	(R) Dubai
(D)	(S) Moscow
(E)	(T) Abu Dhabi
	(U) New Delhi



Q.4 Match the following cities listed in **Column I** and their popular name in **Column II** ($5 \times 2 = 10$ Marks)

Column I	Column II
(A) Jaipur	(P) Steel city
(B) Bangalore	(Q) Manchester of India
(C) Surat	(R) Pink City
(D) Jamshedpur	(S) Garden City
(E) Ahmedabad	(T) Blue City
	(U) Diamond city



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SECTION B: Geometrical Drawing (Maximum Marks: 60) This section contains THREE (03) questions. Each question carries 20 marks

Jalis are used in historic and contemporary buildings to ensure natural light and ventilation. Q.5 Figure X below shows an example of such Jali. The basic component of Jali is its geometrical configuration. Complete the Jali design in the box below.

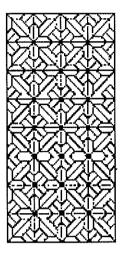
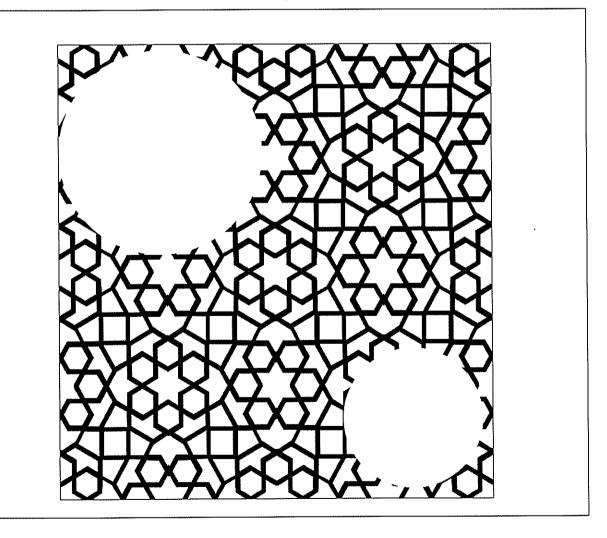
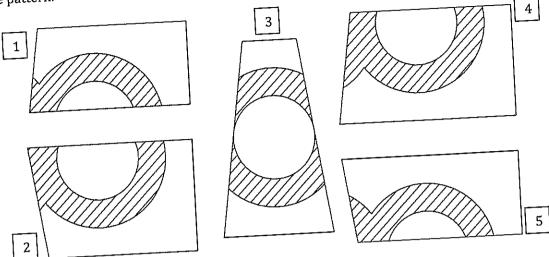
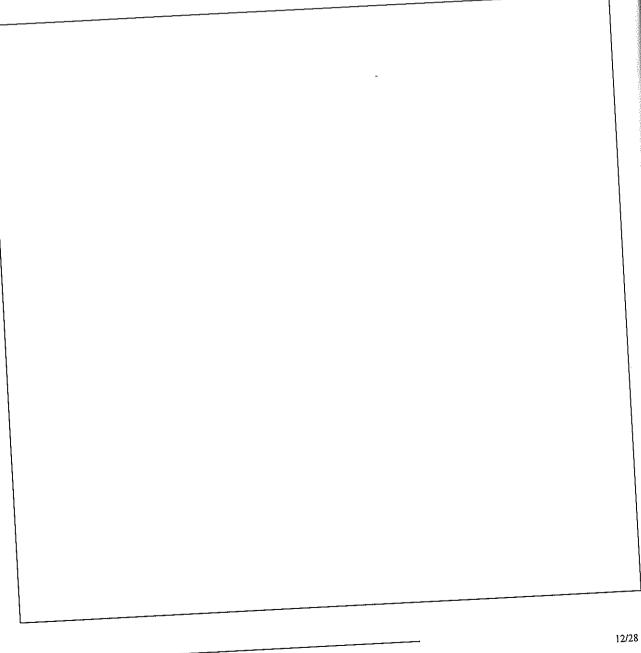


Figure X



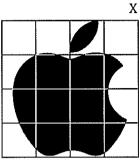
Rearrange the following five pieces of paper to form a rectangle in such a way that it completes JEE (Advanced) 2020 Q.6 the pattern.







Q.7 Enlarge the following figure three times after flipping about the line XY, in the space provided below.



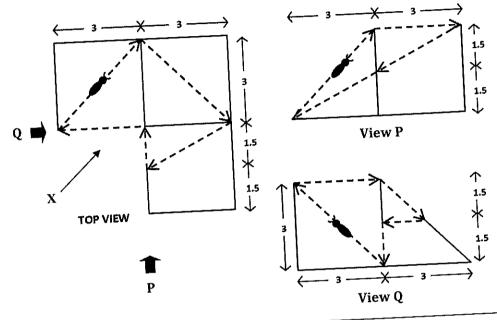
Y

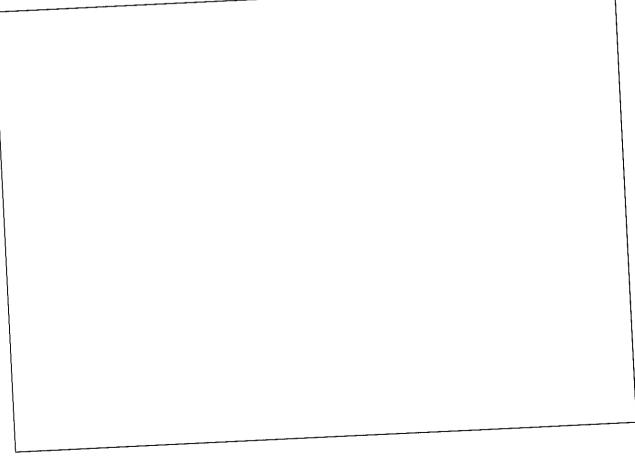


SECTION C: 3D Perception (Maximum Marks: 60)

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

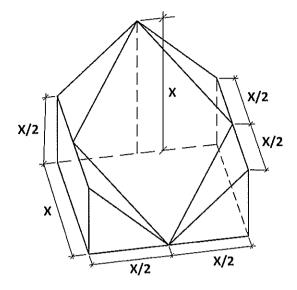
The top view, and view from P and Q of a three-dimensional object are given below. The dashed line with the arrows indicates the path of an ant over the surface of the object. Develop the Q,8 three dimensional isometric view from 'X' direction of the object and trace the path of the ant. All dimensions are in centimeter.







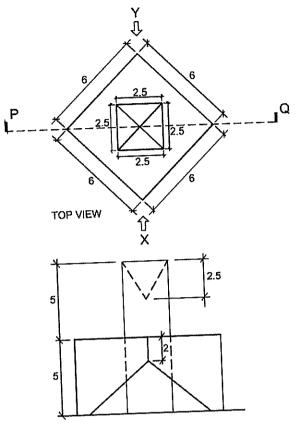
Q.9 Draw the top view of the Kdron whose 3D angular front view with dimensions is shown below



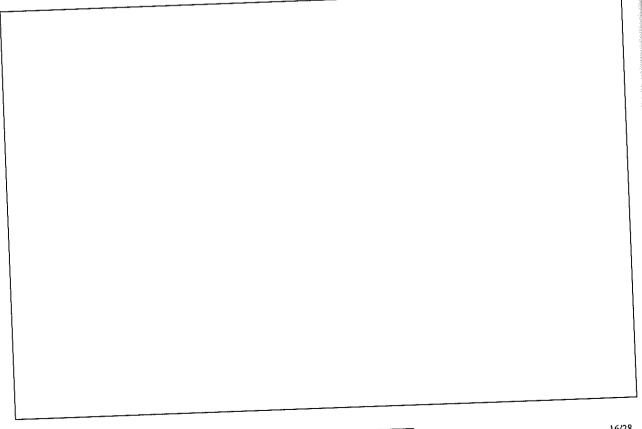


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The top view and the elevation from 'X' direction of objects are given below. The object is identical both from 'X' and 'Y' direction. Draw the sectional view of the object when cut through



ELEVATION FROM X DIRECTION



SECTION D: Imagination and Aesthetic Sensitivity (Maximum Marks: 60) This section contains THREE (03) questions. Each question carries 20 marks

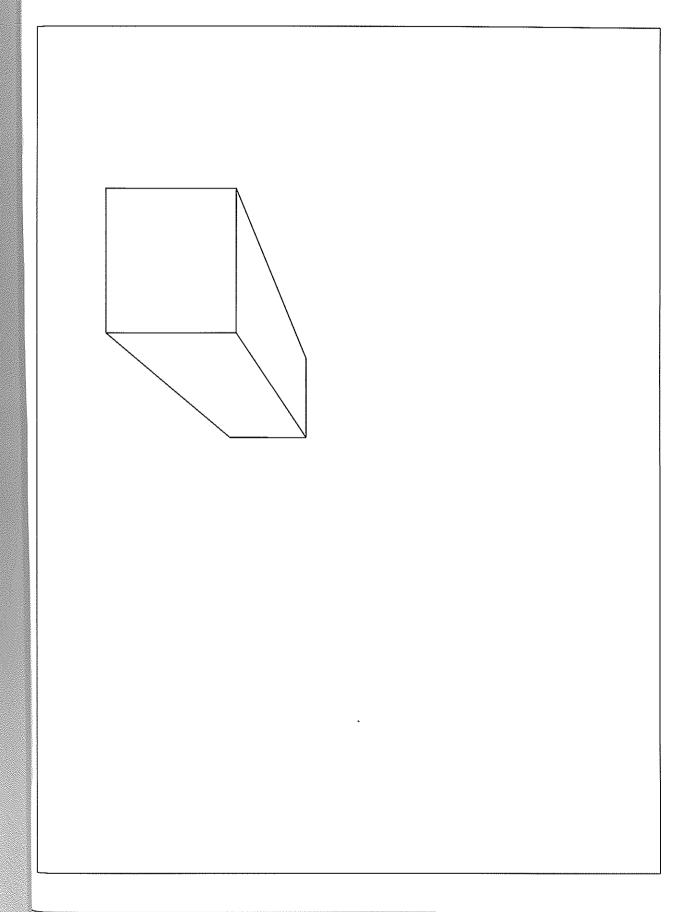
Q.11 Air, water, sun, trees constitute the natural environment which interact with building to create built environment for good living. However, often we are ignorant of the environment and forget to value them. Therefore Water, Tree and Building are worried about this ignorance. Make an imaginary conversation between Water, Tree and Building about their concerns and add a concluding remark in the space provided below



Q.12	Segregating domestic waste into bio-degradable and non-bio degradable components at home is one of the goal in Swachh Bharat Mission because segregation at source leads to effective waste collection and its management. In order to sensitise citizens, municipal authority wishes to make a poster campaign about this. Design a coloured poster to convey the message in the space given below.	



Q.13 Develop the bird's eye view of a city with the associated elements, using the partial figure and colour it appropriately.





SECTION E: Freehand Drawing (Maximum Marks: 60)

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

.14	Draw a freehand realistic pencil sketch of a spoon dipped partially in a transparent glass half filled with clear water.
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Q.15	You have a foreign friend in social media. She does not have much idea how I like. Make a freehand sketch of your school to share with your friend.	



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SPACE FOR ROUGH WORK ONLY









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Sections	Question No.	Page No.	Maximum Marks	Marks Obtained
	Q. 1	3 - 7	30	
Section A (Architectural	Q. 2	8	10	
Awareness)	Q.3	9	10	
	Q.4	10	10	
	Q.5	11	20	
Section B (Geometrical Drawing)	Q.6	12	20	
	Q.7	13	20	
Section C	Q.8	14	20	
(Three Dimensional	Q.9	15	20	
Perception)	Q.10	16	20	
Seeking D	Q.11	17	20	
Section D (Imagination and Aesthetic	Q.12	18	20	
Sensitivity)	Q.13	19	20	
	Q.14	20	20	
Section E (Freehand Drawing)	Q.15	21	20	
	Q.16	22	20	
TOTAL MARKS			300	

