JEE (Adv) 2020		JEE (Adv) 2020
(AAT)		(AAT)
Time: 3 hours	Maximum Marks: 300	NAME:
READ THE INST	TRUCTIONS CAREFULLY	
GENERAL		
This sealed booklet break the seal till you	is your Question Paper. Do not u are told to do so.	ROLL NO:
verify that the book the 16 questions alo	reaking the seal of the booklet, let contains 28 pages and that all ong with the options are legible. about any missing or torn sheet	JEE (ADV) 2020 RANK:
in this booklet and a booklet from the inv	nsk for a replacement of the vigilator. No replacement will be nutes of the starting of the	CATEGORY:
Write your Name, R and other details in	oll Number, JEE (Adv) 2020 Rank the space provided and nowhere didentification mark of any type is	CATEGORY RANK (IF APPLICABLE):
Answers are to be w within the space pro	ritten only in the booklet and ovided beside / below each ere else. Answers written in non-	EXAMINATION CENTRE:
Blank spaces are pro rough work.	ovided within this booklet for	I HAVE READ ALL THE INSTRUCTIONS AND SHALL
	ooklet or detach or mutilate any klet. Such acts lead to	ABIDE BY THEM
The question paper	has five sections.	Signature of the Candidate
All the Questions as	e compulsory.	
Total Marks Obtained	l:	Signature of the Invigilator after verification of identity and other details
In Numbers:		
In words:		
Signature of the Exam	niner with date	
Signature of the Scrut	rinizer 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.

Q.1. This s	section contains 15 multiple choice questi Y ONE is correct. Mark the correct option wi	ons. Each question has four options, out of which ith a tick mark.
		$(15 \times 2 = 30 \text{ Marks})$
(i)	The architectural marvel 'Taj Mahal' at Ag	gra is a
	Museum	Fort
	Mausoleum	Palace
(ii)	Which among the following materials poss	sesses similar binding property as cement?
	Lime	Brick
	Sand	Gravel
(iii)	Ratio of two consecutive higher order term number which is known as	ns in Fibonacci Sequence, approaches an irrational
	Golden Ratio	Pi
	Euler's number	Pythagoras' constant
(iv)	An Indian architect, who won the Pritzker	Architecture Prize in the year 2018 is
	Hafeez Contractor	Raj Rewal
	B V Doshi	Charles Correa

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

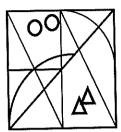
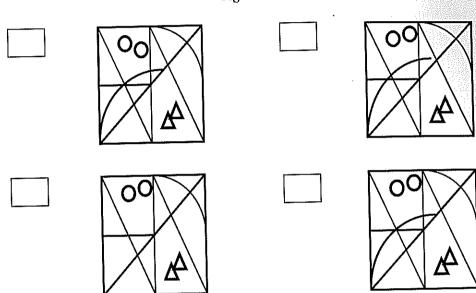
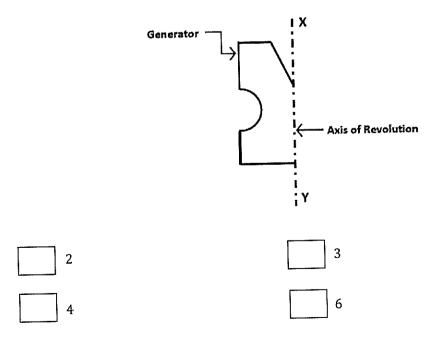


Figure X

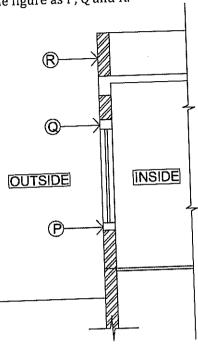


(vi) The number of curved surfaces obtained by rotating the generator (as shown in the figure below) about its axis of revolution X-Y, is



(V11	I) One hectare equals to	
	10,000 sq.mt.	100,000 sq.mt.
	1,000 sq.mt.	100 sq.mt
(viii	heritage list? Lotus Temple, New Delhi by Faribo	rz Sahba
	The Complexe du Capitole, Chandig	arh by Le Corbusier
	Jawahar Kala Kendra, Jaipur by Cha	rles Correa
	Matrimandir - Auroville, Puducherr	y by Roger Anger
(ix)	Escalator is used in public buildings for	
	Vertical circulation	Horizontal circulation
	Fire protection	Beautification
(x)	Which among the following is NOT a type of a	ir-conditioner?
	Window	Split
	Cassette	Disc
(xi)	Sloped roof DOES NOT protect the building for	rom
	Heavy rain	Snow fall
	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

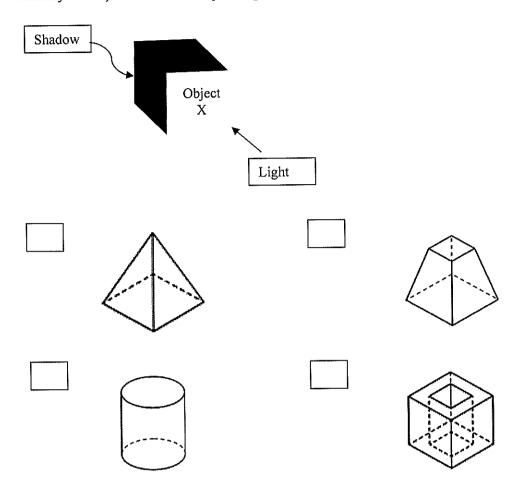
 (P) Sill (Q) Lintel (R) Parapet

 (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)	\ \	Q) \ 	R) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	S)?
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Match the logo in Column I with the respective Government of India mission/ scheme in Column II (5 \times 2 = 10 Marks) Q.2

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

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

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

Match the following cities listed in Column I and their popular name in Column II

($5 \times 2 = 10 \text{ Marks}$) Q.4

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

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

Q.5 Jalis are used in historic and contemporary buildings to ensure natural light and ventilation. 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.

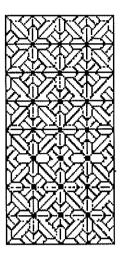
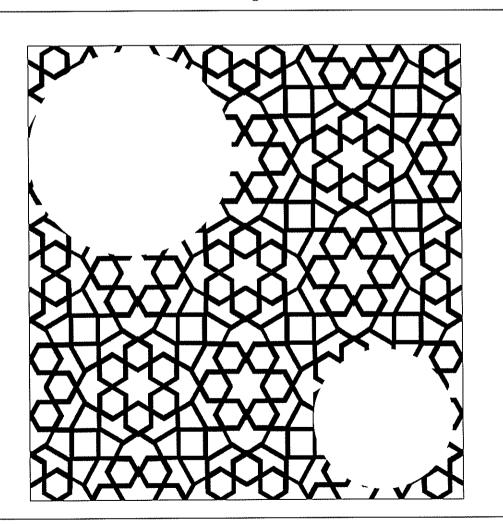
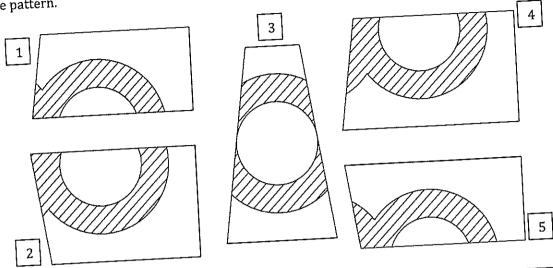


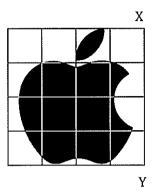
Figure X



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



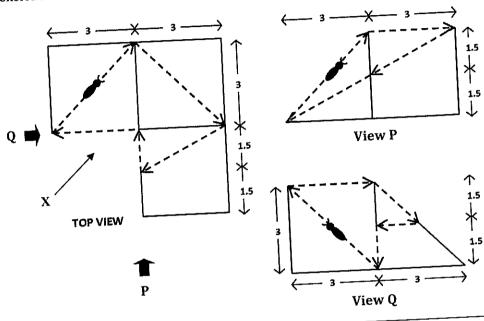
Q.7 Enlarge the following figure three times after flipping about the line XY, in the space provided below.



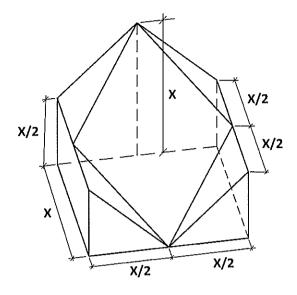
SECTION C: 3D Perception (Maximum Marks: 60)

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

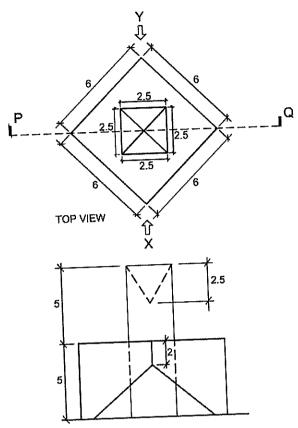
The top view, and view from P and Q of a three-dimensional object are given below. The dashed line with the arrows indicates the path of an ant over the surface of the object. Develop the Q,8 three dimensional isometric view from 'X' direction of the object and trace the path of the ant. All dimensions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



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



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 PQ.



ELEVATION FROM X DIRECTION

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

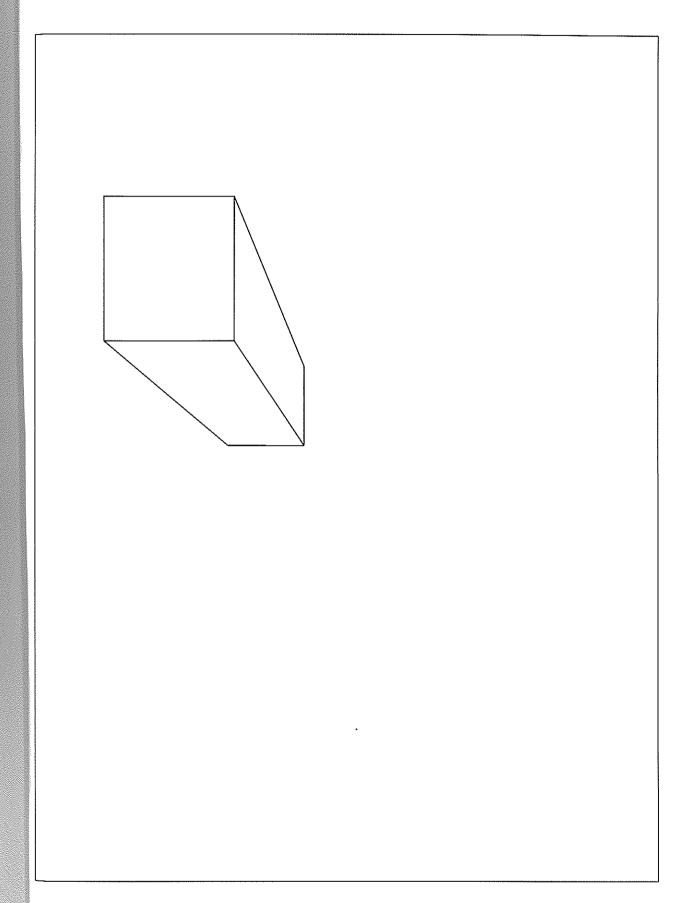
Q.11 Air, water, sun, trees constitute the natural environment which interact with building to create built environment for good living. However, often we are ignorant of the environment and forget to value them. Therefore Water, Tree and Building are worried about this ignorance.

Make an imaginary conversation between Water, Tree and Building about their concerns and add a concluding remark in the space provided below

Building	
Water/Tree	
Tree/Water	
Building	
Tree/Water	
Water/Tree	
Concluding remark	

2.12	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.
Ì	

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

2.14	Draw a freehand realistic pencil sketch of a spoon dipped partially in a transparent glass half filled with clear water.

	Q.15	You have a foreign friend in social media. She does not have much idea how India like. Make a freehand sketch of your school to share with your friend.	n schools look
		ince. Make a freehand sketch of your school to share with your friend,	
Γ			
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L.			

Q.16	Draw a coloured freehand sketch of a village fair.

END OF THE QUESTION PAPER

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Section-wise Distribution of Marks

		on-wise Distribut		
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 Perception)	Q.9	15	20	
r er ception)	Q.10	16	20	
Section D	Q.11	17	20	
(Imagination and Aesthetic Sensitivity)	Q.12	18	20	
Schshivity)	Q.13	19	20	
	Q.14	20	20	
Section E (Freehand Drawing)	Q.15	21	20	
	Q.16	22	20	
TOTAL MARKS			300	