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



A-2018	3824	A-2018	3824
Time: 3 hours	Maximum Marks: 300		
READ THE INST	TRUCTIONS CAREFULLY	NAME :	
This sealed bookle break the seal till	et is your Question Paper. Do not you are told to do so.		
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Write your Name Rank and other of nowhere else. No	, Roll Number, JEE (Adv) 2018 details in the space provided and distinctive / identification mark of out anywhere else in this booklet.	CATEGORY:	
 Answers are to be within the space Question and no non-designated pl 	e written only in the booklet and provided beside / below each where else. Answers written in ace will not be evaluated.	CATEGORY RANK (I	F APPLICABLE):
rough work. • Do not deface th	provided within this booklet for is booklet or detach or mutilate the booklet. Such acts lead to	EXAMINATION CEN	TRE:
 The question pape All the Questions 	er has five sections. s are compulsory.		
Total Marks Obtain	ed:	I HAVE READ ALL TO AND SHALL ABIDE E	HE INSTRUCTIONS BY THEM
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SECTION A: Architectural Awareness (Maximum Marks: 60)

	Bhubaneswar Delhi Ahmedabad Chandigarh	
(iv)	The only Indian city enlisted in UNESCO World Heritage list is	
	Sound reflection Sound diffraction	
	Sound absorption Sound diffusion	
(iii)	Acoustically, the purpose of putting carpet in an auditorium is	
	Bandra – Worli Sea Link on Mahim Bay Kovvur- Rajamundry Bridge on Godavari	
	Dr. Bhupen Hazarika Setu on Lohit Mahatma Gandhi Setu on Ganges	
(ii)	Amongst the following, which is the longest bridge in India?	
	The first telleral following property and a second	
	Earthquake	
	Terrorist attack Flash flood	
(i)	100121	
This which	Section contains 15 multiple choice questions. Each question has four options, out of the choice option with a tick ☑ mark. (15×2=30 No.)	Iarks)
	which (ii) (iii)	Terrorist attack Flash flood Earthquake Fire (ii) Amongst the following, which is the longest bridge in India? Dr. Bhupen Hazarika Setu on Lohit Mahatma Gandhi Setu on Ganges Bandra –Worli Sea Link on Mahim Kovvur- Rajamundry Bridge on Godavari (iii) Acoustically, the purpose of putting carpet in an auditorium is Sound absorption Sound diffusion Sound reflection Sound diffraction (iv) The only Indian city enlisted in UNESCO World Heritage list is Bhubaneswar Delhi

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(V)	which of the following elements is a characteristic action of the following elements is a characteristic action.	cteristic feature of Roman architecture?
	Pyramid	Minaret
	Flying buttress	Aqua duct
(vi)	Yellow and Blue colours, when mixed in eq	qual amount, produce
	Cyan	Green
	Magenta	Orange
(vii)	Which of the following purposes is NOT serve	ed by a boundary wall made up of planter boxes?
	Dust control	Noise reduction
	Enhancement of aesthetic quality	Total visual privacy
(viii)	Identify the software used for technical draf	ting.
	Paint	AutoCAD
	CorelDRAW	Adobe Photoshop
(ix)	The city of Daulatabad in Maharashtra is fan	nous for
	Fort	Palace
	Mosque	Temple
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(x)	The Great Stupa at Sanchi resembles which	th of the following geometric form?
	Spherical	Hemispherical
	Ellipsoidal	Cylindrical
(xi)	Surajkund is famous for	
	Contemporary Art Biennale	Cattle fair
	Camel fair	International Craft Mela
(xii)	Which of the following road signage is No	OT meant to be used in front of a school?
(xiii)	Who is the author of "Malgudi Days"?	
	R. K. Narayan	Ramachandra Guha
	R.K. Laxman	Chetan Bhagat



? Collection	Transportation Incineration			
Landfill	Biogas production			
Recycle	Segregation			
What is the maximum number of cookies of dish of 12 cm diameter without any overlap				
Seven	Nine			
Six				
Who am I ?	Five			
a suit on pages and of an execu-	terials in Column – II to answer "Who am			
Who am I ?				
Who am I ? Match the descriptions in Column – I with the mat	terials in Column – II to answer "Who am (5×2=1			
Who am I ? Match the descriptions in Column – I with the mat	terials in Column – II to answer "Who am (5×2=1			
Who am I? Match the descriptions in Column – I with the mat Column – I (A) I am transparent and fragile	terials in Column – II to answer "Who am (5×2=1 Column – II (P) Brick			
Who am I? Match the descriptions in Column – I with the material column – I Column – I (A) I am transparent and fragile (B) I am red in colour and made of soil	terials in Column – II to answer "Who am (5×2=1 Column – II (P) Brick (Q) Iron			
Who am I? Match the descriptions in Column – I with the material column – I Column – I (A) I am transparent and fragile (B) I am red in colour and made of soil (C) I am strong but prone to corrosion	terials in Column – II to answer "Who am (5×2=1 Column – II (P) Brick (Q) Iron (R) Glass			

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Q.3 Match the building components in Column – I with their corresponding functions mentioned in Column – II. (5×2=10 Marks)

Column – I	Column – II
(A) Sloping roof	(P) Evaporative cooling
(B) Lattice screen or Jali	(Q) Rainfall drainage
(C) Large window opening	(R) Reflection of solar radiation
(D) Fountain in courtyard	(S) Sunlight diffusion
(E) Flat roof with lime-wash	(T) Water absorption
	(U) Unobstructed view

Q.4 Match the buildings in Column -I with the architects in Column -II.

(5×2=10 Marks)

Column – I	Column – II
(A) Parliament Library, New Delhi	(P) Moshe Safdi
(B) Centre for Development Studies, Thiruvananthapuram	(Q) Charles Correa
(C) TCS Deccan Park, Hyderabad	(R) Raj Rewal
(D) Bihar Museum, Patna	(S) Laurie Baker
(E) Virasat-e-Khalsa Museum, Anandpur Sahib	(T) Fumihiko Maki
	(U) Mario Botta

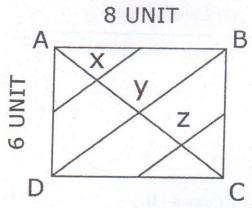


SECTION B: Geometrical Drawing (Maximum Marks: 60)

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

Q.5 Consider the figure given below. The diagonal AC divides the rectangle ABCD (6 unit x 8 unit) into two triangles, ABC and ADC. The sides of the rectangle are bisected and midpoints of the adjacent sides are joined, intersecting the diagonal AC at x and z. Diagonal BD intersects AC at y.

The triangle ABC is to be overlapped with the triangle ADC using clockwise rotation with respect to point C, followed by translation. Draw the process in two steps, clearly indicating the degree of rotation, unit of translation, and new positions of A, B, C, x, y, and z by marking them as A', B', C', x', y' and z' respectively. (20 Marks)

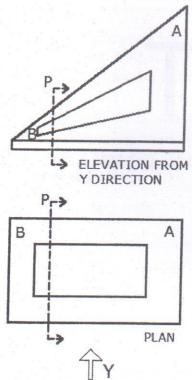


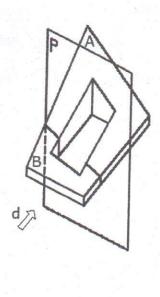
QUEST

- Mirror



Q.7 The plane 'P' cuts the object, shown below, in two parts A and B. Draw the elevation of A from direction 'd' after removing part B. (20 Marks)







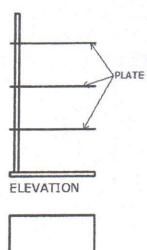
SECTION C: 3D Perception (Maximum Marks: 60)

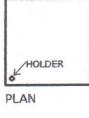
This Section contains THREE (03) questions. Each question carries 20 marks.

Q.8 Three square shaped metal plates equally separated by a gap are stacked along a circular holder.

Each plate is now rotated anticlockwise by 30 degrees with respect to the previous one. Draw a three dimensional view of the holder with the plates in their rotated positions, as seen from direction 'd'. The initial position is shown below in plan and elevation.

(20 Marks)



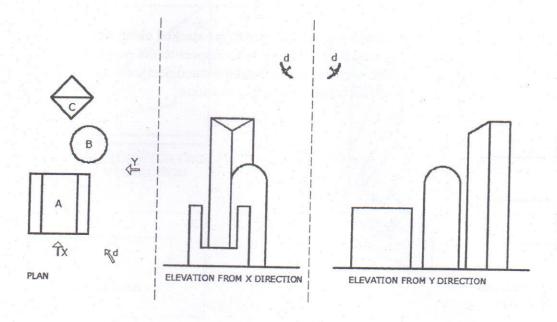






Q.9 Draw a Bird's eye view of the following group of objects A, B and C, looking from direction 'd'.

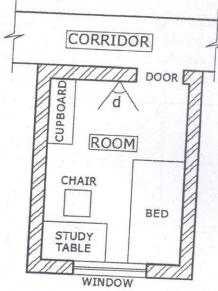
(20 Marks)





Q.10 Given below is the plan of a hostel room of dimension 2.7 m × 3.5 m. Height of the room is 3.0 m. Draw the view of the hostel room from point 'd' at eye level, showing all the furniture in correct proportion.

(20 Marks)



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

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

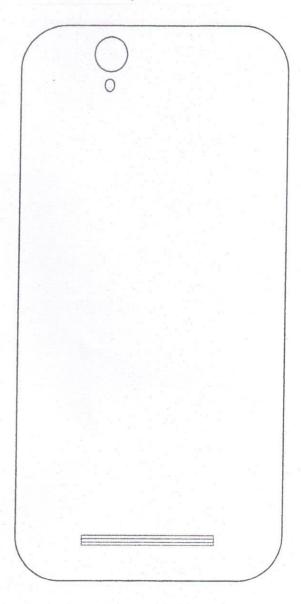
Marks)

participate in the co	nversation. You	ı may start t	he conversation	on with any o	f the chairs	. (
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Q.12 In the template given below, design a mobile back cover for a celebrity of your own choice. The cover design should reflect the personality and profession of the celebrity. Use any three colours. Mention name and profession of the celebrity. (20 Marks)



Name and profession of the celebrity:



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			8 V. V.
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SECTION E: Freehand Drawing (Maximum Marks: 60)

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

Q.14 Draw a BUS-STOP showing built-in seating facilities, information boards, signage and people waiting for the bus. (20 Marks)

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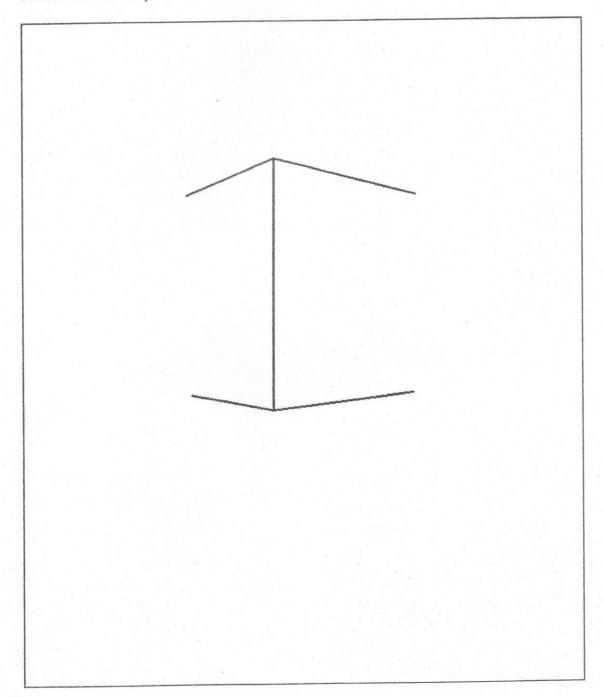


Draw and colour a flower-vase with flowers in the space given below.	(20 Mark
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Q.16 Considering a building profile given below, develop a STREET SCENE with associated elements. Make the pencil sketch with shades and shadows. (20 Marks)



END OF THE QUESTION PAPER



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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 - 6	30	
	Q. 2	6	10	
	Q. 3	7	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	Q. 11	14	20	
(Imagination and Aesthetic	Q. 12	15	20	
Sensitivity)	Q. 13	16	20	
Section E (Freehand Drawing)	Q. 14	17	20	
	Q. 15	18	20	
	Q. 16	19	20	
TOTAL MARKS			300	