Common Entrance Examination for Design

CEED 2023

INSTRUCTIONS

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- 3. Part A carries a total of 100 marks. It contains 3 sections. All questions are mandatory. The following table summarises the marking scheme of Part A:

Part A Section	Type of questions	Number of questions	Marks for each correct answer	Marks for each wrong answer	Marks for each question not attempted	Total marks for the section
I	Numerical Answer Type (NAT)	8	3	0	0	24
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III	Multiple Choice Question (MCQ)	23	2	-0.5	0	46

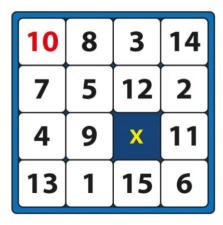
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Part A - Section I: Numerical Answer Type Questions

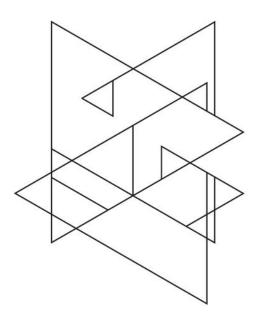
Q.01 Imagine a pentagon shaped building. The walls of the building are sides of the pentagon, and there is a watchtower at each vertex. Each watchtower can have guards who can watch two walls connected to the watchtower. What is the minimum number of guards required if each wall needs to be watched by at least 3 guards?

Q.02 Shown below is a number puzzle. Only one piece can be slided horizontally or vertically in one move.

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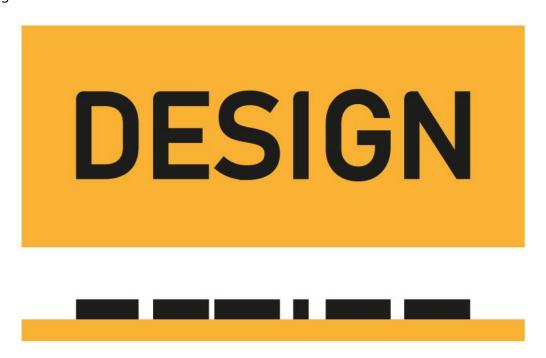
Q.03 Count the number of triangles in the image below.

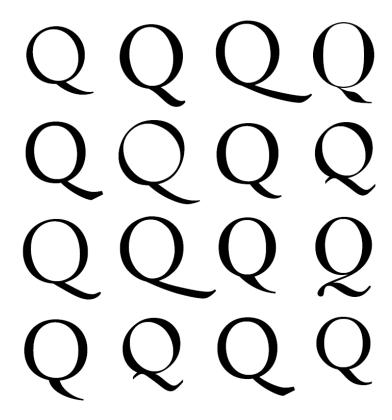


Q.04 A cube is dissected by one plane at 1/6 side length and one plane at 1/2 side length in each of the three dimensions of xy, yz and xz. How many cubes will be formed after dissecting the large cube?

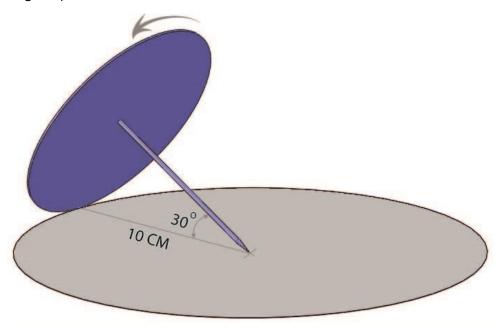
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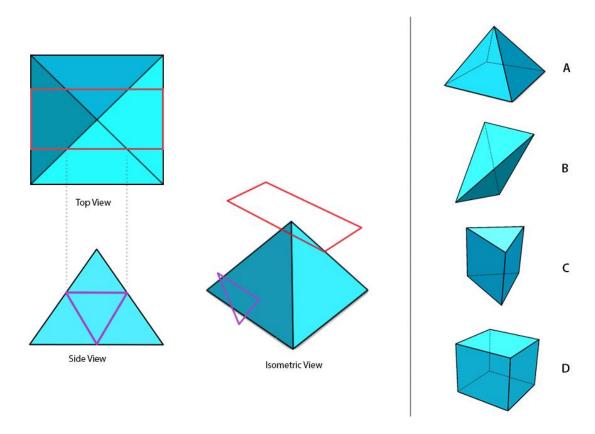


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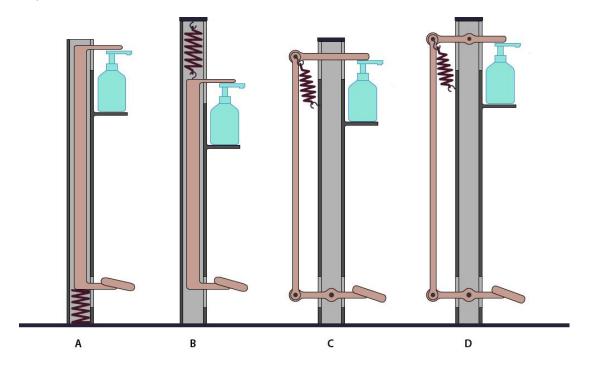


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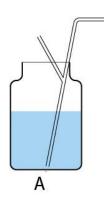
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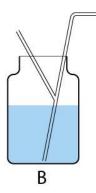
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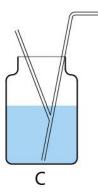
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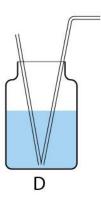
- A. The phrases represent a structure of a specific element arranged in a non-repetitive manner
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Q.12 Which of the straw(s) will draw the liquid?

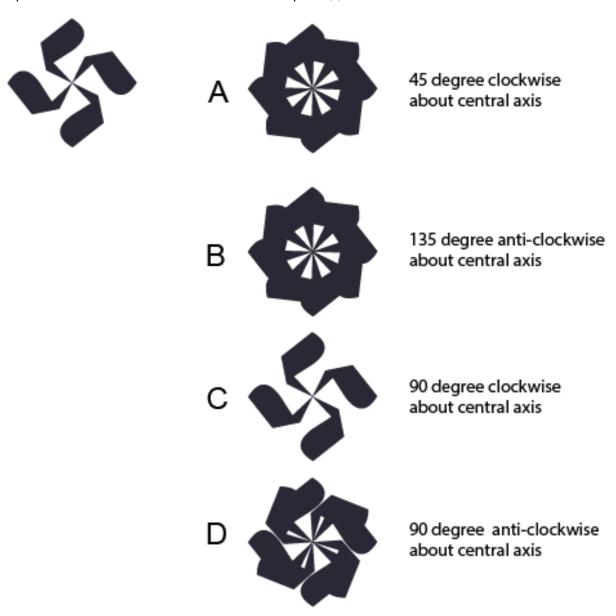








Q.13 The motif on the left is duplicated in the same position. The duplicated motif was rotated about its central axis on the top of original motif at different angles as shown in options A, B, C, D. Which is/are the correct option(s)?

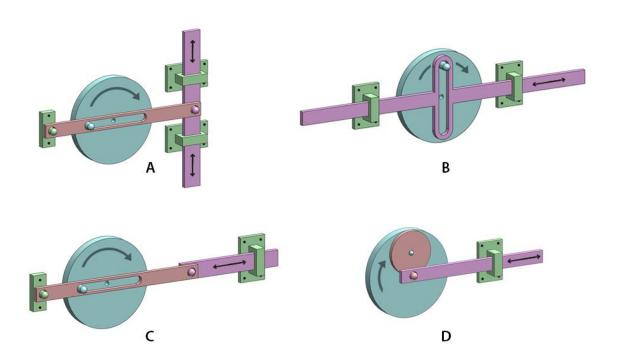


- **Q.14** A food delivery company wishes to re-design its app ecosystem. A designer has been asked to conduct research interviews for this activity. Which of the following people should the designer interview?
 - A. People who deliver the food ordered through the app
 - B. Employees of restaurant who offer food through the app
 - C. Customer support employees of the food delivery company
 - D. Existing users of the app

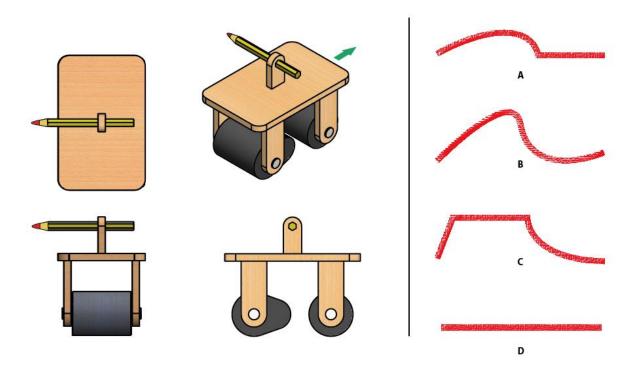
Q.15 Find out the correct option(s) which can be used to create the image on the left. You can duplicate, rotate and reflect these options to achieve the same.



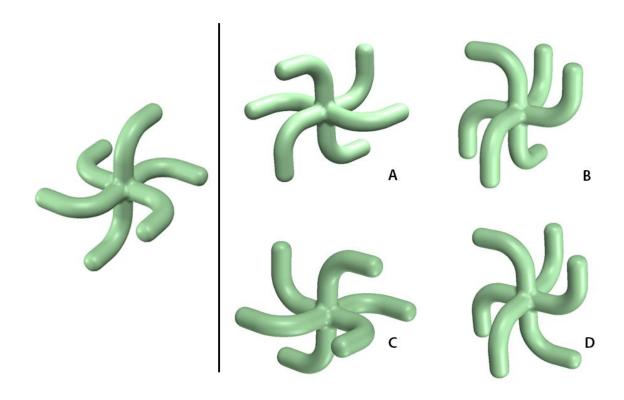
Q.16 Which option(s) will result in linear motion (shown by straight arrows) of the plunger when the wheel is rotated?



Q.17 The toy shown in the figure is pushed in the direction of the green arrow as the pencil makes a mark on a wall beside it. Which of the mark(s) in the options can **NEVER** be made by the pencil?

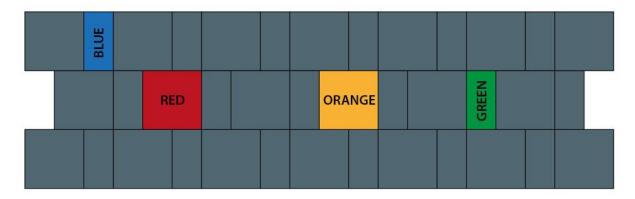


Q.18 Which of the option(s) is/are the rotated view(s) of the object shown on the left?



Part A - Section III: Multiple Choice Questions

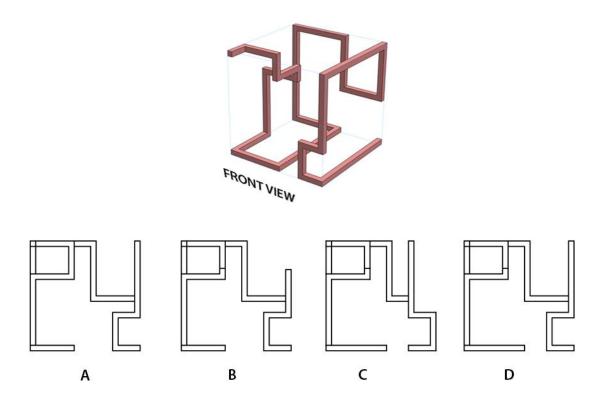
Q.19 Shown below is a keyboard designed for smartphones. It has two sizes of keys which are arranged one after the other. What will be the difficulty of independently typing a single coloured key from the origin (key O), arranged from least difficult to most difficult i.e. easiest to type first, most difficult to type last. Assume, the mobile is held vertically in the left hand, and a right-handed user presses the keys using only the index finger of the right hand.



0

- A. Orange, Green, Red, Blue
- B. Red, Blue, Orange, Green
- C. Red, Orange, Green, Blue
- D. Orange, Red, Green, Blue

Q.20 Which option represents the front view of the object shown below?



Q.21 Which one of these materials would make a furniture lightest for the same design?

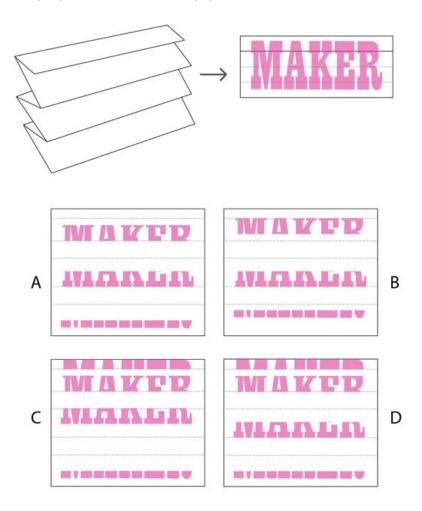


Q 22 A zookeeper had x baboons and y monkeys in an enclosure. One day, the zookeeper was told that seven of the animals have escaped. From only this information, he was able to deduce that at least one baboon has escaped. Which of the following **does not** represent a possible (x,y) pair?

- A. (10,8)
- B. (7,2)
- C. (25,6)
- D. (12,4)

- **Q.23** In the paintings from Pablo Picasso's blue period, colours are chosen from one part of the colour-wheel. They yield tonality of blue, in spite of the presence of yellowish green, bluish green, bluish purple and so on. Therefore, it can be said that tonality is an outcome of
 - A. Split complementary combination.
 - B. Double complementary combination.
 - C. Simple analogous combination.
 - D. Triadic colour combination.

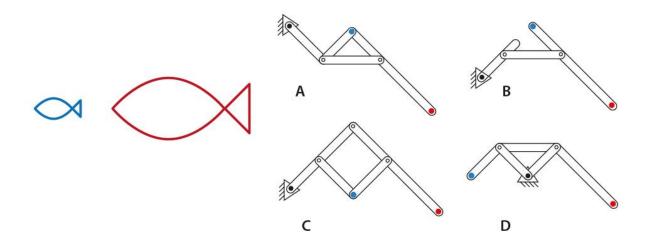
Q.24 A sheet of paper is folded as shown. Then the word 'MAKER' is written on the folded paper. Which option correctly represents the unfolded paper?



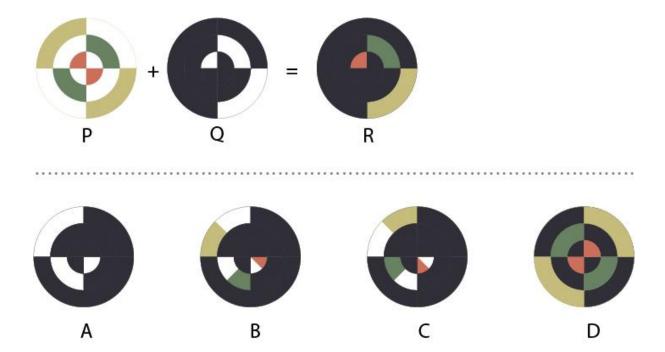
Q.25 In kitchen we have three important activities to perform, namely, (Task 1) washing utensils, (Task 2) rolling chapati and (Task 3) chopping vegetables. To design an ergonomically correct kitchen which of the following is most beneficial depending on the need in an ideal situation. Assume that only one person will use the kitchen.

- A. All the three tasks at same height.
- B. Tasks 1 and 2 at same height.
- C. Tasks 2 and 3 at same height.
- D. All three tasks at different heights.

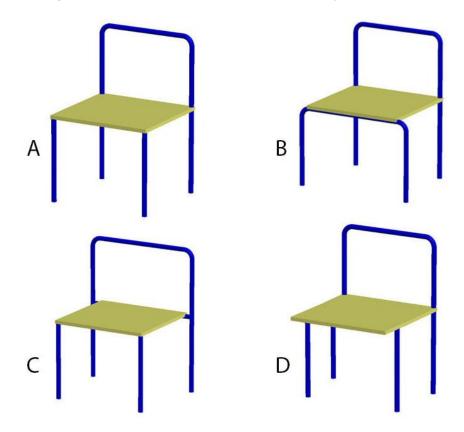
Q.26 Identify the correct mechanism that enlarges the blue fish to red when traced with the blue dot.



Q.27 P and Q are two layered dials of a watch. Dial Q is placed on the top of dial P. The white areas in dial Q are cut portions through which parts of dial P are visible from the top. The pattern shown in image R is taken at 12:00 hrs. Dial Q rotates by 90 degrees after every 15 minutes in clockwise direction about its central axis. Dial P rotates by 45 degrees anti-clockwise after every 30 minutes about its central axis. Find out the right pattern at 13:30 hrs.

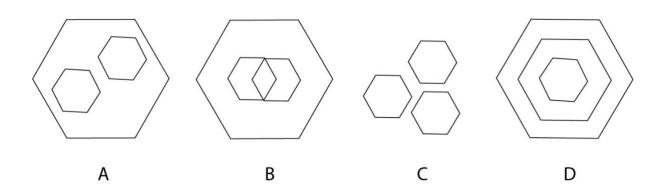


Q.28 From the given options, which chair can be compactly stacked?



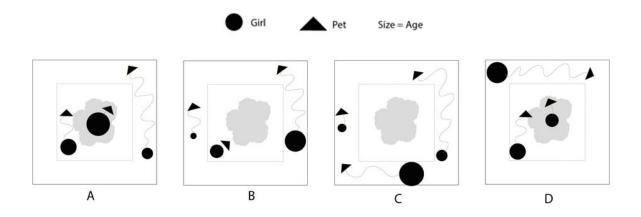
Q.29 Which one of the diagrams **DOES NOT** represent any of the relationships given below?

Egg: Sugar: CakeSeed: Fruit: TreeRock: Paper: Scissors



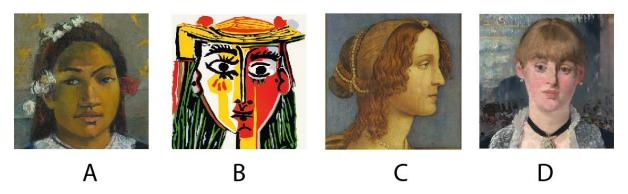
Q.30 Three girls went to a square garden with their dogs. The garden was built around a banyan tree at the centre. The area around the tree was bound by a beautiful picket fence. Usha the eldest, sat on the platform under the banyan tree while Fluffy lay at her feet sleeping peacefully in the shade. Reena and Tommy walked around the fence looking at the beautiful flowers. Madhu, the youngest of the three, was always running around shouting at Gullu who loved the challenge of chasing squirrels.

Which of the diagrams correctly represents the above scenario?

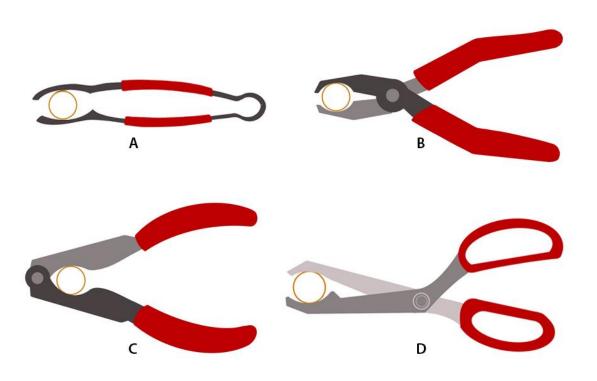


Q.31

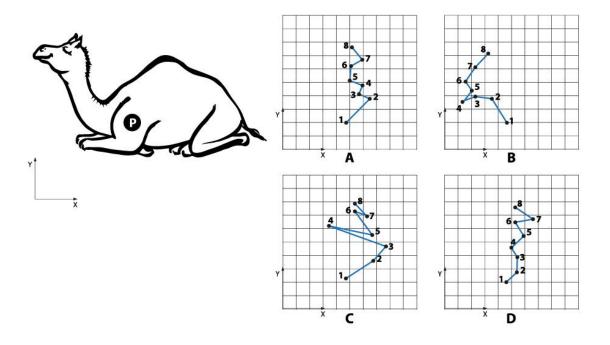


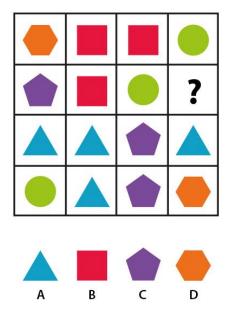


Q.32 Image below shows four configurations for designing a nut cracker. Which option would require least amount of pressure to break the nut?

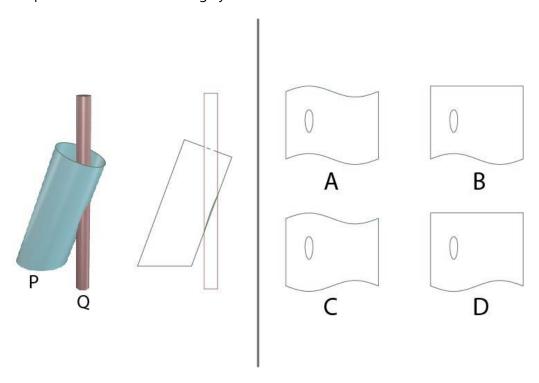


Q.33 A camel is resting under the shade of a tree. Camel needs to stand-up to walk. Trace the trajectory of point P shown on the body of the camel, as it stands up, assuming 1 as the starting point.

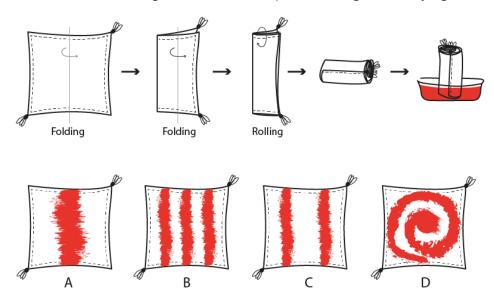




Q.35 A cylinder P is cut by a cylinder Q as shown. Choose the option which shows the shape obtained after unrolling cylinder P.

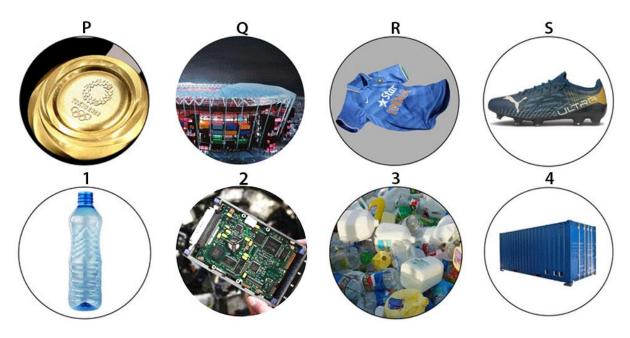


Q.36 Aru bought a new cushion cover from the market. Though the material is cotton, she was not happy with the plain cushion cover and planned to dye it with a colour. She followed the process as shown in the diagram. Find out the pattern she got after dying the cover.



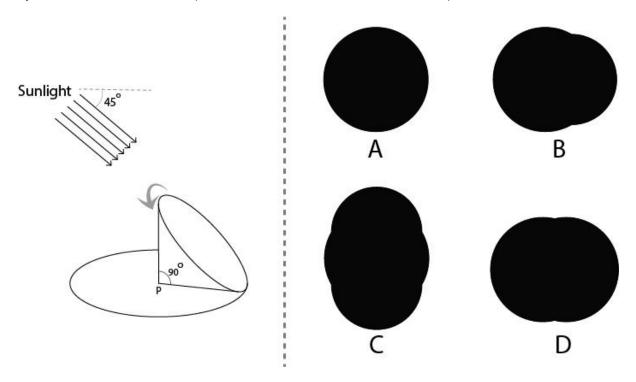
Q.37 Towards sustainable future people are recycling materials. Shown below are products or architecture (top row) that are made from recycling materials (bottom row).

Which of the options listed below correctly identifies products or architecture with the material that they are recycled from?

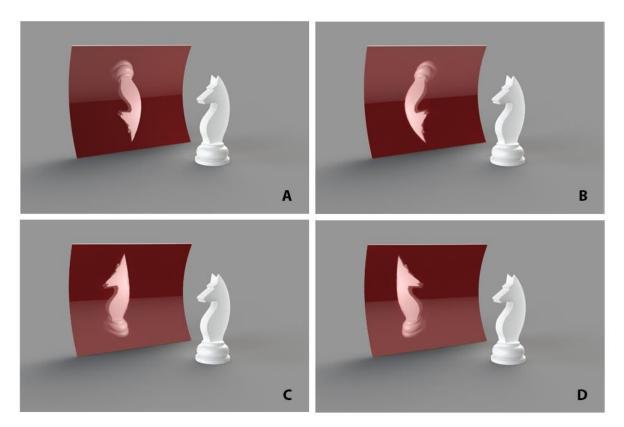


- A. P-4, Q-2, R-1, S-3
- B. P-2, Q-1, R-3, S-1
- C. P-2, Q-4, R-1, S-3
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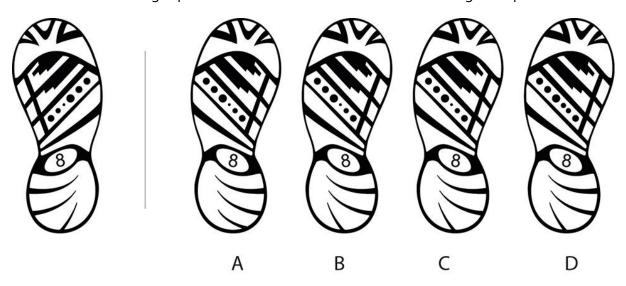
Q.38 A solid cone is revolving inside the circle as shown. Parallel sunlight at 45 degrees to ground is creating the shadow of the cone. Which option represents the total region covered by the shadow for one complete revolution when seen from the top?



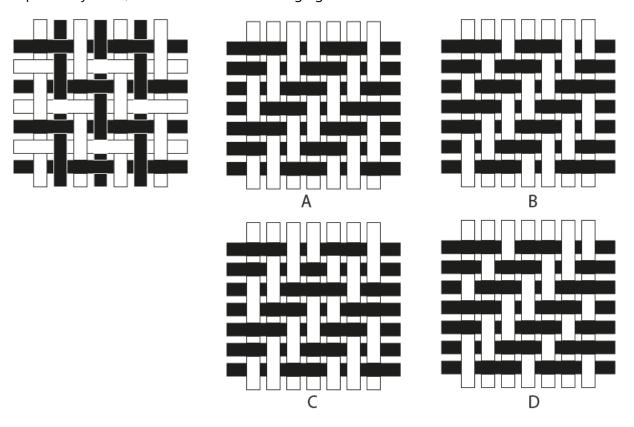
Q.39 Which of the options shows the correct reflection of the chess piece?



Q.40 Find out the right pair for the shoe shown on the left from the given options.



Q.41 The figure on the left was made using white and black ribbons. If all black ribbons in vertical direction are replaced by white and all white ribbons in horizontal direction are replaced by black, then find out the resulting figure.



Part B

All questions are mandatory

Q.1 Sketching (20 marks)

Mr. Singh (5 Feet, 11 inches tall) is smiling and capturing a selfie of his entire family with his mobile phone held vertically. He is with his wife (5 feet tall), standing towards his left with her two mischievous kids. Pinky (girl) and Bablu (boy) are making funny expressions looking into the mobile. They all are standing facing a digital camera installed in the top corner of room. The size of the room is $12 \times 12 \times 12$ feet.

Draw the picture of the above description from the point of the view of a digital camera capturing this moment.

Additional Instructions:

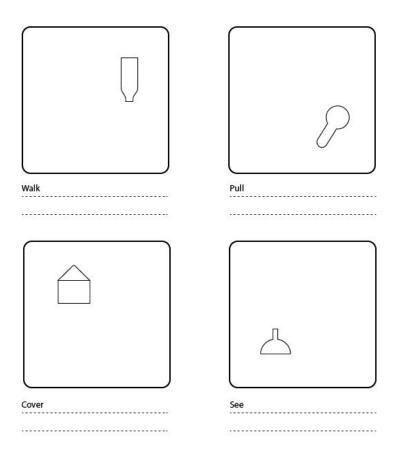
- Use only pencils.
- Do not illustrate the surroundings. Only draw the family.

Evaluation criteria:

- Imagination
- Overall composition of the picture
- Quality of lines
- Attention to details
- Anatomy and perspective

Q.2 Creativity (20 marks = 4×5)

Each of the boxes in the answer script shows some visual elements and the FIRST word for a title of the image. Draw recognizable images by interpreting the visual elements and give a title to the images using the given first word. Use only BLACK pencil/pen. Draw only within the boundaries of the boxes.



Evaluation criteria:

- Uniqueness: Ability to create unusual images
- Diversity: Variation between the created images
- Clarity: Effective use of the visual elements and title
- Fun: Ability to use humor and surprise in the images and title

Q.3 Visual Sensitivity (20 marks)

Create a new visual identity for Indian Women's Hockey Association. The identity has to be original and should have the abbreviations 'IWHA' as part of the visual design. DO NOT draw from any existing designs.

Evaluation criteria:

- Creative visual representation
- Effective communication of the concept
- Visual Aesthetics
- Composition

Q.4 Form sensitivity (20 marks)

An abstract three-dimensional form is shown below. Visualise the form of a cutlery set (fork, bowl and glass) for 3-6 Yrs. children based on the image of the given form. It should match the design language with relevant details. Sketch and render the form of the cutlery set.



Evaluation Criteria:

- Consistency with the visual language of the form
- Form should complement function
- Relevant details of the product
- Surface shading
- Quality of lines/strokes

Q.5 Problem identification (20 marks = 5 x 4)



Shown in the image above is an example of a bus-stop during the busy hours.

Draw and annotate **FIVE** distinct design problems in this context.

- Use only one visual for each problem.
- Answer in the given space only.

Evaluation Criteria:

- Severity of the identified problem
- Ability to make distinct observations
- Ability to communicate through visuals

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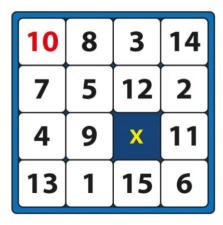
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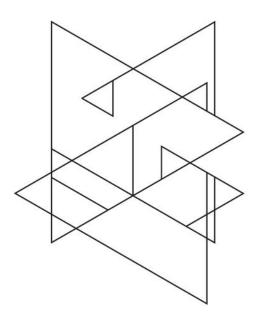
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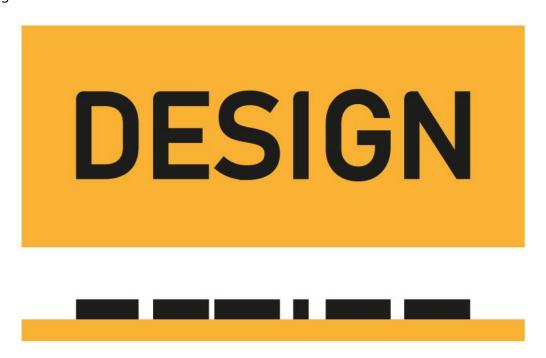
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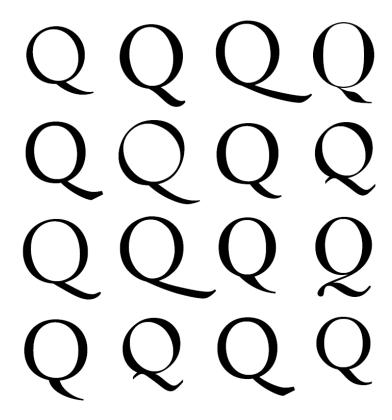


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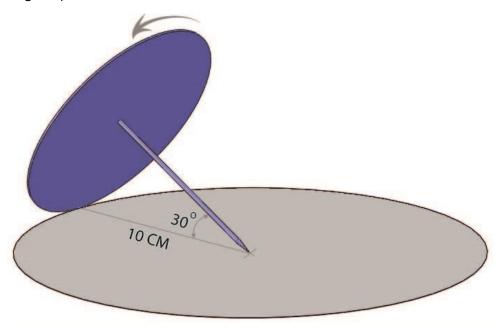
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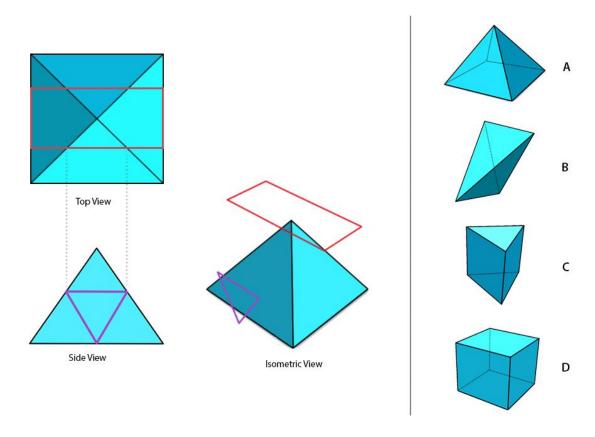


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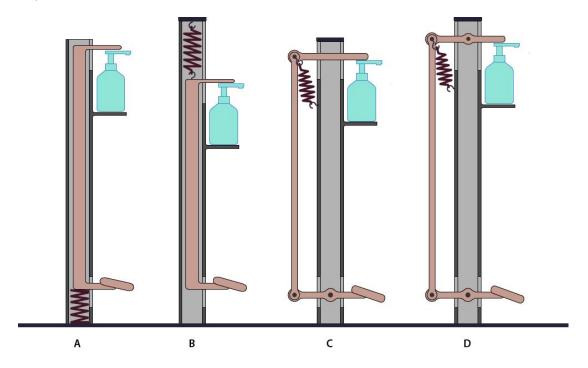


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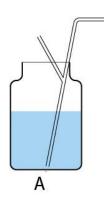
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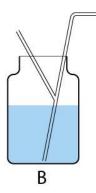
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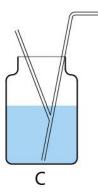
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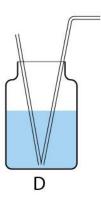
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- C. The phrases represent a structure of a specific element arranged in a repetitive manner.
- D. The scales are indicative of both volume and time.

Q.12 Which of the straw(s) will draw the liquid?

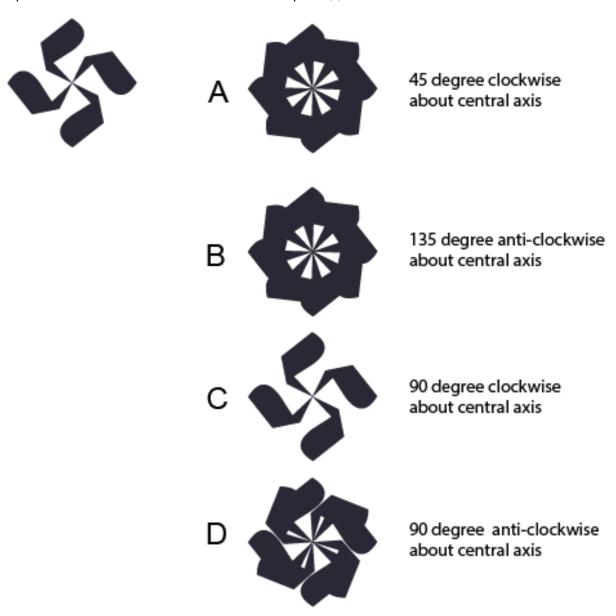








Q.13 The motif on the left is duplicated in the same position. The duplicated motif was rotated about its central axis on the top of original motif at different angles as shown in options A, B, C, D. Which is/are the correct option(s)?

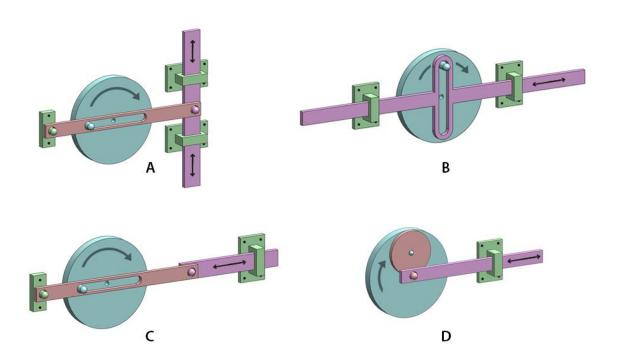


- **Q.14** A food delivery company wishes to re-design its app ecosystem. A designer has been asked to conduct research interviews for this activity. Which of the following people should the designer interview?
 - A. People who deliver the food ordered through the app
 - B. Employees of restaurant who offer food through the app
 - C. Customer support employees of the food delivery company
 - D. Existing users of the app

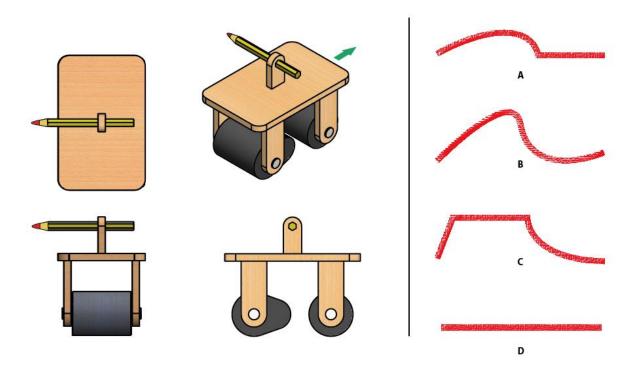
Q.15 Find out the correct option(s) which can be used to create the image on the left. You can duplicate, rotate and reflect these options to achieve the same.



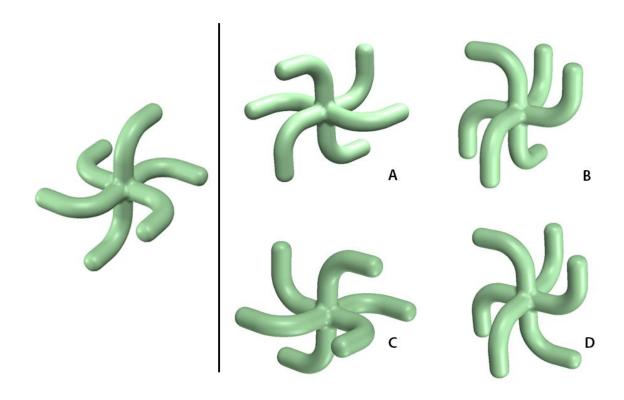
Q.16 Which option(s) will result in linear motion (shown by straight arrows) of the plunger when the wheel is rotated?



Q.17 The toy shown in the figure is pushed in the direction of the green arrow as the pencil makes a mark on a wall beside it. Which of the mark(s) in the options can **NEVER** be made by the pencil?

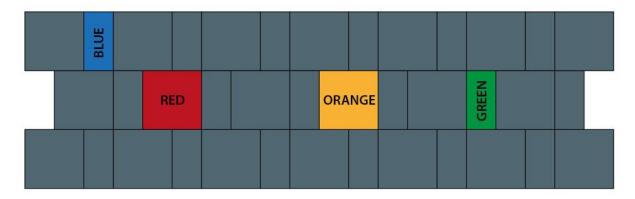


Q.18 Which of the option(s) is/are the rotated view(s) of the object shown on the left?



Part A - Section III: Multiple Choice Questions

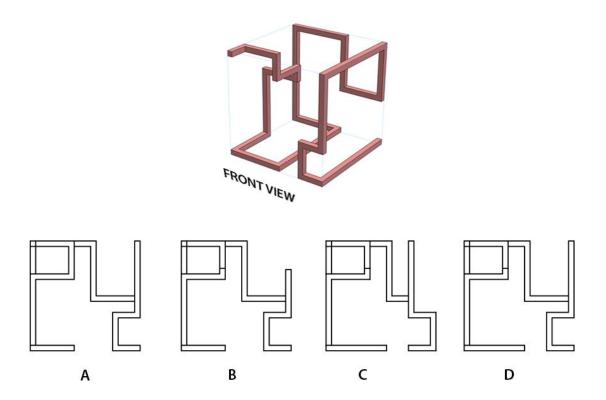
Q.19 Shown below is a keyboard designed for smartphones. It has two sizes of keys which are arranged one after the other. What will be the difficulty of independently typing a single coloured key from the origin (key O), arranged from least difficult to most difficult i.e. easiest to type first, most difficult to type last. Assume, the mobile is held vertically in the left hand, and a right-handed user presses the keys using only the index finger of the right hand.



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- A. Orange, Green, Red, Blue
- B. Red, Blue, Orange, Green
- C. Red, Orange, Green, Blue
- D. Orange, Red, Green, Blue

Q.20 Which option represents the front view of the object shown below?



Q.21 Which one of these materials would make a furniture lightest for the same design?

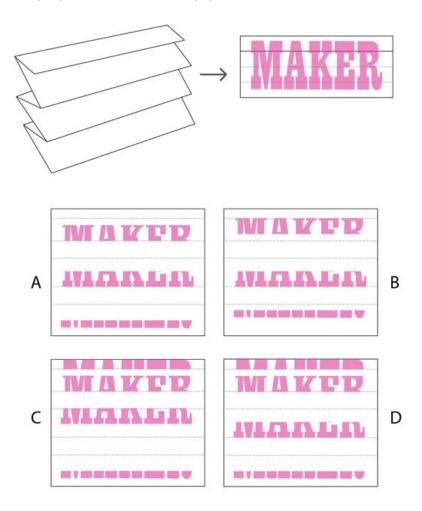


Q 22 A zookeeper had x baboons and y monkeys in an enclosure. One day, the zookeeper was told that seven of the animals have escaped. From only this information, he was able to deduce that at least one baboon has escaped. Which of the following **does not** represent a possible (x,y) pair?

- A. (10,8)
- B. (7,2)
- C. (25,6)
- D. (12,4)

- **Q.23** In the paintings from Pablo Picasso's blue period, colours are chosen from one part of the colour-wheel. They yield tonality of blue, in spite of the presence of yellowish green, bluish green, bluish purple and so on. Therefore, it can be said that tonality is an outcome of
 - A. Split complementary combination.
 - B. Double complementary combination.
 - C. Simple analogous combination.
 - D. Triadic colour combination.

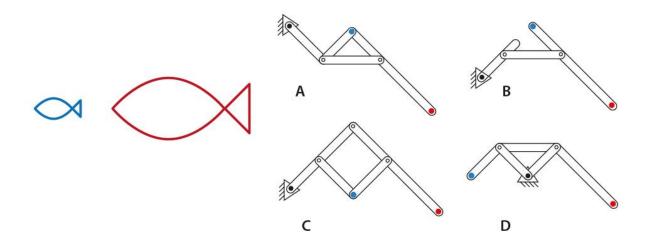
Q.24 A sheet of paper is folded as shown. Then the word 'MAKER' is written on the folded paper. Which option correctly represents the unfolded paper?



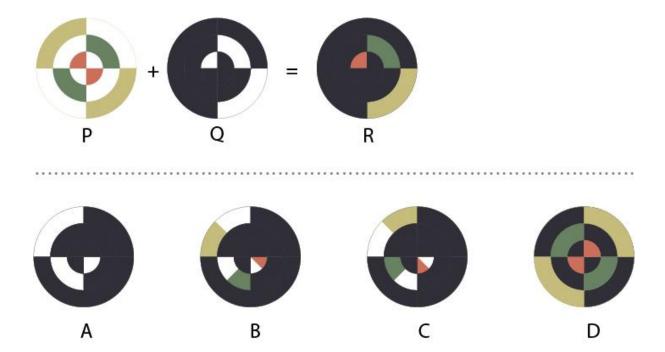
Q.25 In kitchen we have three important activities to perform, namely, (Task 1) washing utensils, (Task 2) rolling chapati and (Task 3) chopping vegetables. To design an ergonomically correct kitchen which of the following is most beneficial depending on the need in an ideal situation. Assume that only one person will use the kitchen.

- A. All the three tasks at same height.
- B. Tasks 1 and 2 at same height.
- C. Tasks 2 and 3 at same height.
- D. All three tasks at different heights.

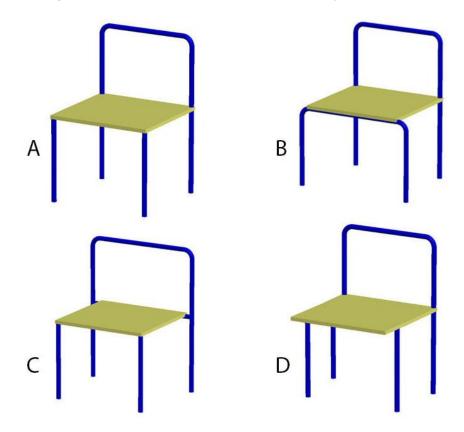
Q.26 Identify the correct mechanism that enlarges the blue fish to red when traced with the blue dot.



Q.27 P and Q are two layered dials of a watch. Dial Q is placed on the top of dial P. The white areas in dial Q are cut portions through which parts of dial P are visible from the top. The pattern shown in image R is taken at 12:00 hrs. Dial Q rotates by 90 degrees after every 15 minutes in clockwise direction about its central axis. Dial P rotates by 45 degrees anti-clockwise after every 30 minutes about its central axis. Find out the right pattern at 13:30 hrs.

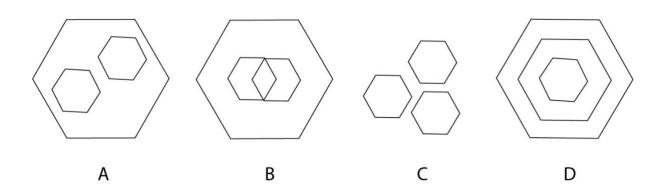


Q.28 From the given options, which chair can be compactly stacked?



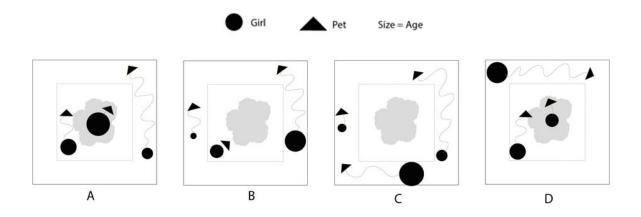
Q.29 Which one of the diagrams **DOES NOT** represent any of the relationships given below?

Egg: Sugar: CakeSeed: Fruit: TreeRock: Paper: Scissors



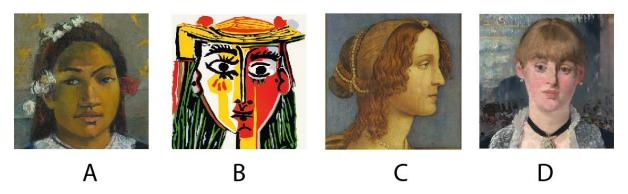
Q.30 Three girls went to a square garden with their dogs. The garden was built around a banyan tree at the centre. The area around the tree was bound by a beautiful picket fence. Usha the eldest, sat on the platform under the banyan tree while Fluffy lay at her feet sleeping peacefully in the shade. Reena and Tommy walked around the fence looking at the beautiful flowers. Madhu, the youngest of the three, was always running around shouting at Gullu who loved the challenge of chasing squirrels.

Which of the diagrams correctly represents the above scenario?

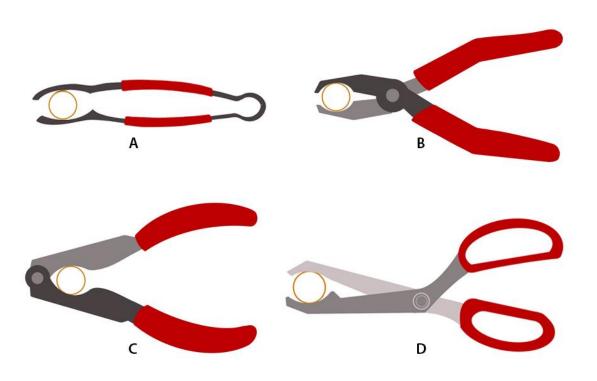


Q.31

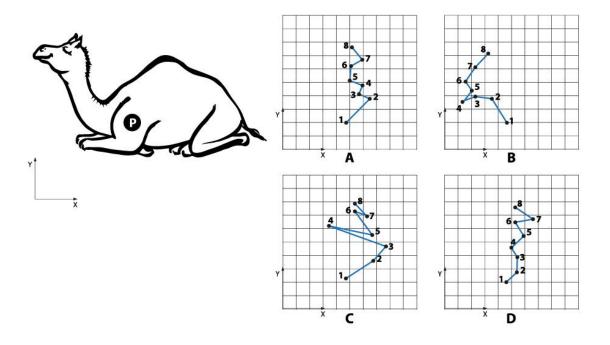


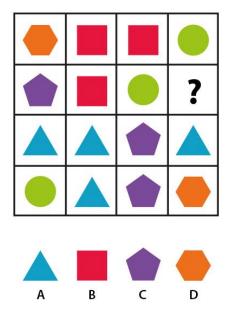


Q.32 Image below shows four configurations for designing a nut cracker. Which option would require least amount of pressure to break the nut?

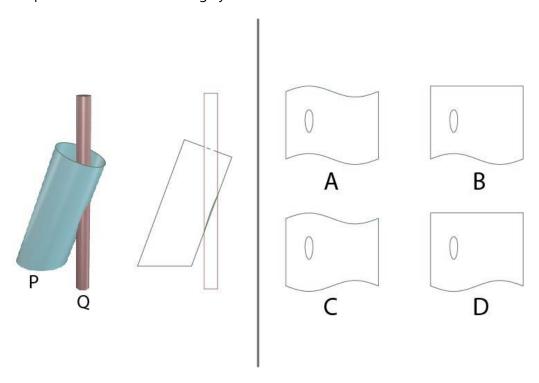


Q.33 A camel is resting under the shade of a tree. Camel needs to stand-up to walk. Trace the trajectory of point P shown on the body of the camel, as it stands up, assuming 1 as the starting point.

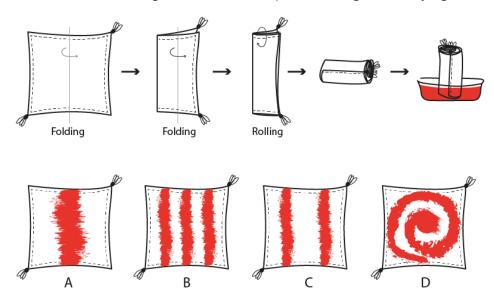




Q.35 A cylinder P is cut by a cylinder Q as shown. Choose the option which shows the shape obtained after unrolling cylinder P.

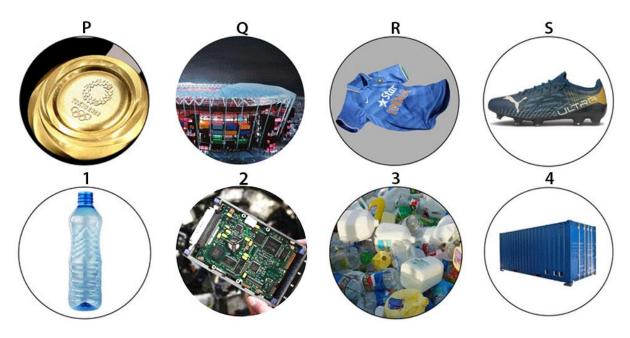


Q.36 Aru bought a new cushion cover from the market. Though the material is cotton, she was not happy with the plain cushion cover and planned to dye it with a colour. She followed the process as shown in the diagram. Find out the pattern she got after dying the cover.



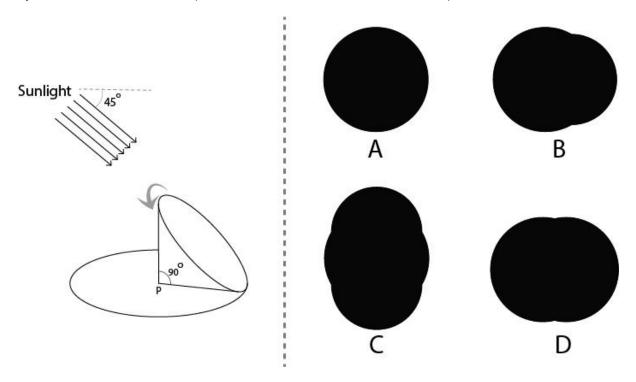
Q.37 Towards sustainable future people are recycling materials. Shown below are products or architecture (top row) that are made from recycling materials (bottom row).

Which of the options listed below correctly identifies products or architecture with the material that they are recycled from?

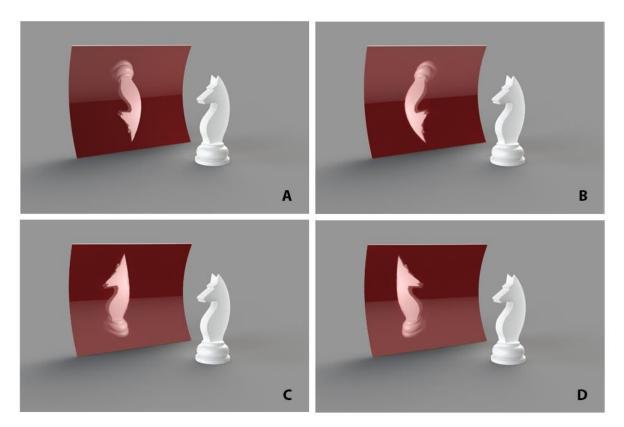


- A. P-4, Q-2, R-1, S-3
- B. P-2, Q-1, R-3, S-1
- C. P-2, Q-4, R-1, S-3
- D. P-4, Q-3, R-1, S-2

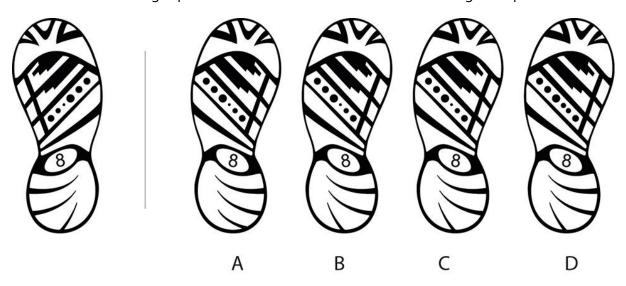
Q.38 A solid cone is revolving inside the circle as shown. Parallel sunlight at 45 degrees to ground is creating the shadow of the cone. Which option represents the total region covered by the shadow for one complete revolution when seen from the top?



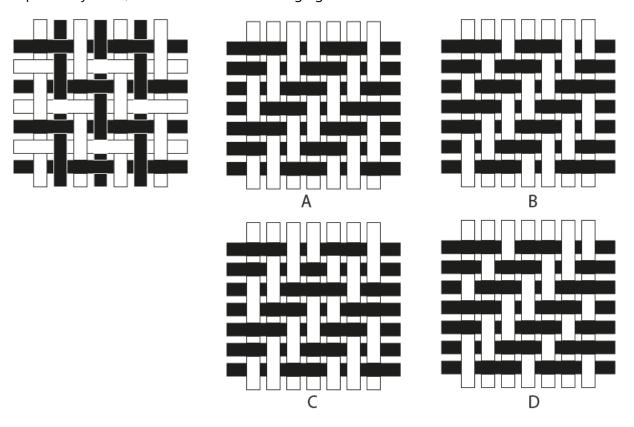
Q.39 Which of the options shows the correct reflection of the chess piece?



Q.40 Find out the right pair for the shoe shown on the left from the given options.



Q.41 The figure on the left was made using white and black ribbons. If all black ribbons in vertical direction are replaced by white and all white ribbons in horizontal direction are replaced by black, then find out the resulting figure.



Part B

All questions are mandatory

Q.1 Sketching (20 marks)

Mr. Singh (5 Feet, 11 inches tall) is smiling and capturing a selfie of his entire family with his mobile phone held vertically. He is with his wife (5 feet tall), standing towards his left with her two mischievous kids. Pinky (girl) and Bablu (boy) are making funny expressions looking into the mobile. They all are standing facing a digital camera installed in the top corner of room. The size of the room is $12 \times 12 \times 12$ feet.

Draw the picture of the above description from the point of the view of a digital camera capturing this moment.

Additional Instructions:

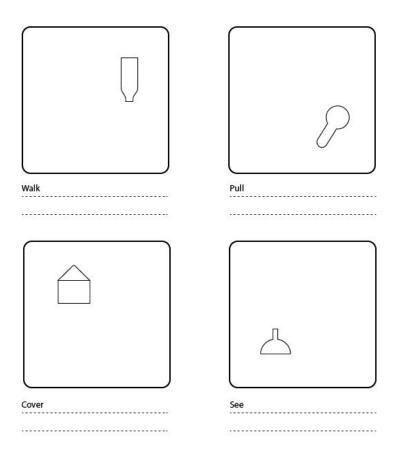
- Use only pencils.
- Do not illustrate the surroundings. Only draw the family.

Evaluation criteria:

- Imagination
- Overall composition of the picture
- Quality of lines
- Attention to details
- Anatomy and perspective

Q.2 Creativity (20 marks = 4×5)

Each of the boxes in the answer script shows some visual elements and the FIRST word for a title of the image. Draw recognizable images by interpreting the visual elements and give a title to the images using the given first word. Use only BLACK pencil/pen. Draw only within the boundaries of the boxes.



Evaluation criteria:

- Uniqueness: Ability to create unusual images
- Diversity: Variation between the created images
- Clarity: Effective use of the visual elements and title
- Fun: Ability to use humor and surprise in the images and title

Q.3 Visual Sensitivity (20 marks)

Create a new visual identity for Indian Women's Hockey Association. The identity has to be original and should have the abbreviations 'IWHA' as part of the visual design. DO NOT draw from any existing designs.

Evaluation criteria:

- Creative visual representation
- Effective communication of the concept
- Visual Aesthetics
- Composition

Q.4 Form sensitivity (20 marks)

An abstract three-dimensional form is shown below. Visualise the form of a cutlery set (fork, bowl and glass) for 3-6 Yrs. children based on the image of the given form. It should match the design language with relevant details. Sketch and render the form of the cutlery set.



Evaluation Criteria:

- Consistency with the visual language of the form
- Form should complement function
- Relevant details of the product
- Surface shading
- Quality of lines/strokes

Q.5 Problem identification (20 marks = 5 x 4)



Shown in the image above is an example of a bus-stop during the busy hours.

Draw and annotate **FIVE** distinct design problems in this context.

- Use only one visual for each problem.
- Answer in the given space only.

Evaluation Criteria:

- Severity of the identified problem
- Ability to make distinct observations
- Ability to communicate through visuals