

NATA 2021 CAAD BITESIZE

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Prepared by
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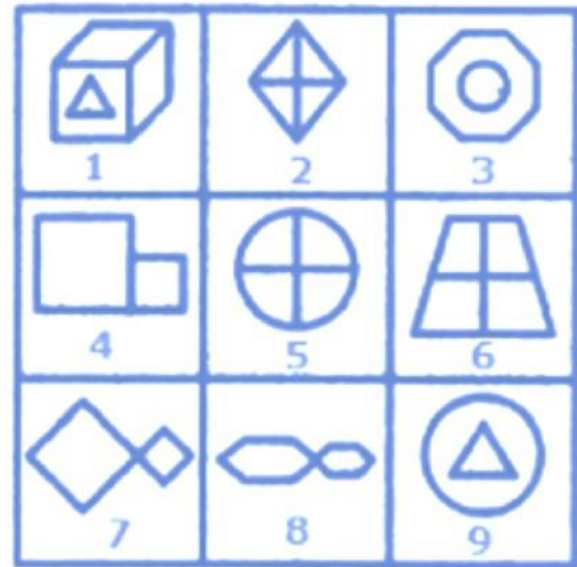
▪ **ABSTRACT REASONING**

▪ **ART MOVEMENT AND HISTORY**

▪ **VISUAL PERCEPTION**

▪ **BUILDING MATERIALS AND CONSTRUCTION**

01. In each of the following questions, group the given figures into three classes using each figure only once.



A. 1,3,9 ; 2,7,8 ; 4,5,6

B. 1,2,4 ; 3,5,7 ; 6,8,9

C. 1,3,9 ; 2,5,6 ; 4,7,8

D. 1,3,6 ; 2,4,8 ; 5,7,9

Answer key

C. 1,3,9 ; 2,5,6 ; 4,7,8

Theory

1, 3, 9 have one element placed inside a different element.
2, 5, 6 contain two mutually perpendicular lines dividing the figure into four parts.
4, 7, 8 have two similar elements (unequal in size) attached to each other.

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02. The length of a room is double its breadth. Its height is 3 metres. The area of its four walls (including the doors) is 108 m². Find its volume.

A. 215m³

B. 216m³

C. 217m³

D. 218m³

Answer key

B. 216m³

Theory

Let l be the length and b be the breadth of the room.
 $L = 2B$, $H = 3$ metres

Area of four walls = $2(L \times H + B \times H) = 108$
 $\Rightarrow 6BH = 108 \Rightarrow B = 6$
 $\therefore L = 12, B = 6, H = 3$
 Volume = $12 \times 6 \times 3 = 216 \text{ m}^3$

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03. Select the lettered pair that has the same relationship as the original pair of words.

Textile : Mill

A. Eggs : Hen

B. Coal : Mine

C. Food : Agriculture

D. Brick : Kiln

Answer key:

D. Brick : Kiln

Explanation

The connection here is that – the Second is the place where the first is manufactured.

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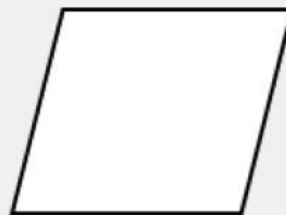
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04. The two figures given below share a common feature. One of the figures of the four given answer options does NOT share this same feature. Identify the one which does NOT share the common feature.



A.



B.



C.



D.



Source: CAAD DRI

Answer key

C.



Theory

All the shapes are quadrangles except B, Which is a triangle.

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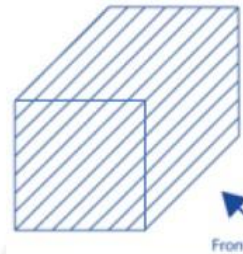
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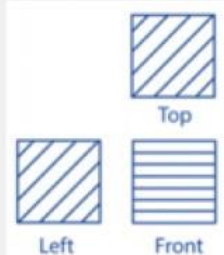
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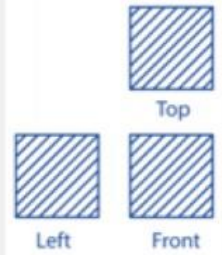
05. If the given figure represents a cube in 3D, which of the options correctly represents its views from different sides?



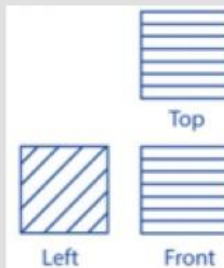
A.



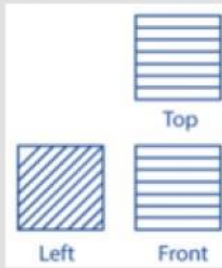
B.



C.

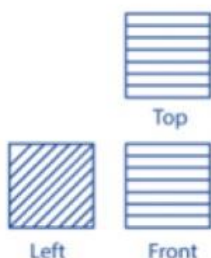


D.



Answer key

D.



Theory

In Option A, Front view is correct. The Top view has inclined lines instead of horizontal lines. The Left view has inclined lines but the spacing has to be still more closer.

In Option B, Left view is correct. But the Front and Top Views have inclined lines instead of horizontal lines.

In Option C, Front and Top views are correct. The left view has inclined lines but the spacing has to be still more closer.

In Option D, Front, Top and Left views are correct. So Option D is correct

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06. What was the name of the foreign-born architect who settled in Kerala and specialized in low-cost housing?



Source: architecturaldigest.in

A. Herbert Baker

B. Laurie Baker

C. Louis Khan

D. None of the above

Answer key

B. Laurie Baker

Theory

Lawrence Wilfred "Laurie" Baker was a British-born Indian architect, renowned for his initiatives in cost-effective energy-efficient architecture and designs that maximized space, ventilation and light and maintained an uncluttered yet striking aesthetic sensibility. Influenced by Mahatma Gandhi and his own experiences in the remote Himalayas, he promoted the revival of regional building practices and use of local materials; and combined this with a design philosophy that emphasized a responsible and prudent use of resources and energy.

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07. Following are a list of words that have been taken from vocabulary associated with designing principles. Find out the words that define the following composition



- | | |
|-------------------------------|----------------------|
| 1. Clustered organization | 6. Monochromatic |
| 2. Symmetry, | 7. Asymmetry |
| 3. Square and its derivatives | 8. Grid organization |
| 4. Texture | 9. Shades of red |
| 5. Neutral colours | 10. Form |

A. Options 2,3,5

C. Options 1,3,8

B. Options 4,5,8

D. Options 2,4,6.

Answer key

All the answers are right.

Theory:

AXIS: A Line established by two point in space about which form and spaces can be arranged in symmetrical and balanced manner

ASYMMETRY :Asymmetrical or Informal Balance Parts of the design are not identical but are equal in visual weight on opposite sides of dividing plane or about a centre axis

HIERARCHY: The articulation of importance and significance of form or space by its size shape and placement relative to other forms and spaces of organization

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08. This material is used as mortar in building construction to bond brick, stone or concrete blocks into a structure.

A. Rubber

B. Steel

C. Glass

D. Cement

Answer key

D. Cement

Theory

In mortar, cement acts as a binding material with sand and water, and is applied as a paste which then sets hard. It is used for masonry work, plastering, repairing damaged concrete, patching or filling, rendering, floor leveling etc.

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