

NATA 2021 CAAD BITESIZE

01.07.2021 PCQ/MCQ/MSQ/NAQ

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Prepared by
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▪ ART MOVEMENT AND HISTORY

▪ VISUAL PERCEPTION

▪ BUILDING MATERIALS AND CONSTRUCTION

01. Kumar is in Bharathiyar Street and can see the Primary School to his right. He walks to the junction of Bharathiyar Street and Second Cross Road. He turns right and proceeds four blocks before turning right and then taking the next right. Which location of the given four options is nearest to his current position?



A. P

B. O

C. N

D. M

Answer key

D. M

Theory

Use the North Direction as the clue and use directional senses to arrive at the solution.



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02. A rectangular plot $15\text{m} \times 10\text{m}$, has a uniformly wide grass pathway outside it. If the area of grassy pathway is 54m^2 , find the width of the path.

A. 4M

B. 3M

C. 2M

D. 1M

Theory



Answer key

D. 1M

Let the width of the path = $W\text{m}$
 then, length of plot with path = $(15 + 2W)\text{m}$
 and breadth of plot with path = $(10 + 2W)\text{m}$
 Therefore, Area of rectangular plot (without path)
 $= 15 \times 10 = 150\text{m}^2$
 Area of rectangular plot (with path) = $150 + 54 = 204\text{m}^2$
 Hence, $(15 + 2W) \times (10 + 2W) = 204$
 $\Rightarrow 4W^2 + 50W - 54 = 0$
 $\Rightarrow 2W^2 + 25W - 27 = 0$
 $\Rightarrow (W - 1)(2W + 27) = 0$
 Thus $W = 1$ or $-27/2$
 Width of the path = 1m

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Find the synonym of the underlined word.

He was advised to curb his inquisitive nature.

A. Eager

B. Aggressive

C. Curious

D. Boisterous

Answer key:

C. Curious

Explanation:

The meaning of the given options are:

Eager means willingness, aggressive means showing excessive force of display of excessive vigor or energy, boisterous means highly animated and active and inquisitive means being curious or having the curiosity to know or being very interested.

So, the right answer is C) Curious.

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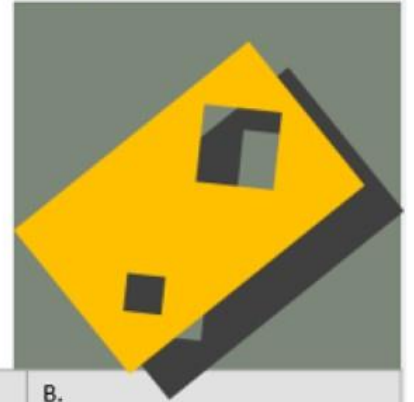
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04. A dancer owns a beach house on the Arabian coast. For her regular dancing practice, she has a dancing pavilion on the terrace. The roof of the pavilion has two diagonally placed square punctures, one of which is bigger than the other. The shadow cast on the pavilion in the evening will resemble which of the four options given?



A.



B.



C.



D.



Answer key

A.



Theory

Shadows are the relatively dark figures cast upon a surface by an opaque body or part of a body intercepting the rays from a light source.

The shape of the shadow is dependent on

- The position of shade line & the observer, The direction of the light and The form of the surfaces on which the plane of the shadow falls
- When the object is not in contact with the ground, the shadow will be seen detached from the object

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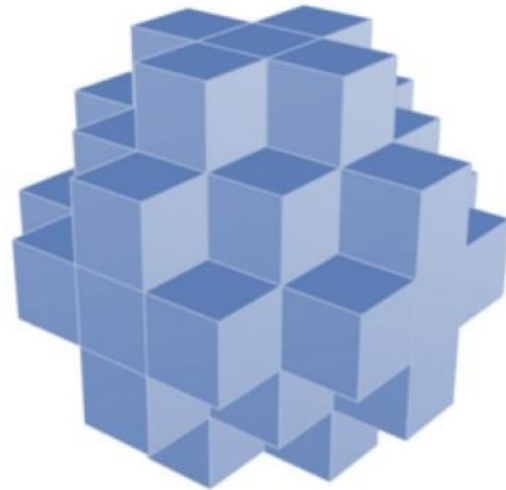
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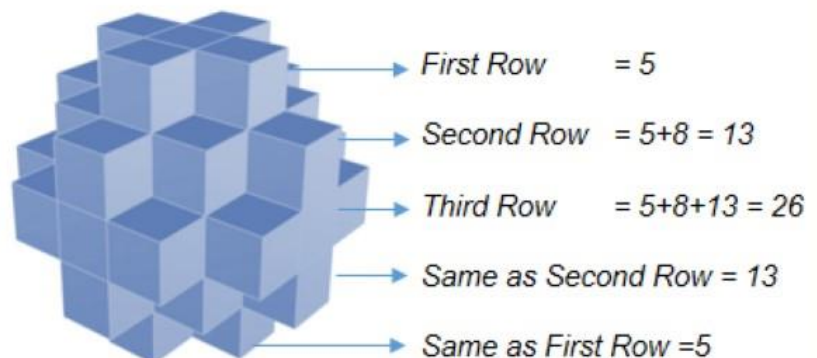
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05. A solid object made of cubes is shown below. This object is symmetric about all three axes, and does not contain any cavities (no hollow spaces). How many cubes does the solid contain?



Theory

Since the object is symmetrical about the three axes, we count the no. of cubes in the three rows of the top, which will be sufficient.



$$\begin{aligned}
 \text{Total no. of cubes} &= \text{twice the first two rows} + \text{middle (third) row} \\
 &= 2 \times (5+13) + 21 \\
 &= 36+21 \\
 &= 57
 \end{aligned}$$

Answer key

57

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06. Identify this Building?



A. Lotus temple

B. Falaknuma Palace

C. Birla mandir

D. Shantivan

Answer key

A. Lotus Temple

Theory

The Baha'i House of Worship, popularly known as the Lotus Temple is not only a symbol of excellence in modern Indian architecture but also one of the most visited religious buildings in the world. The Temple located on a 9.7-hectare site near Nehru Place in South Delhi, is a place of worship open to all races, religions and castes.

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07. Which three principles of design can be visually seen in this famous architectural wonder?



A. Focus	B. Hierarchy
C. Transformation	D. Rhythm
E. Axis	F. Symmetry
G. Asymmetry	

Answer key

- A. Focus
E. Axis
F. Symmetry

Theory:

This is an MSQ type Question.

SYMMETRY: The balanced distribution and arrangement of equivalent forms on opposite sides of a dividing plane or about a centre axis

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

FOCAL POINTS: They are areas of interest, giving emphasis within a composition that capture and hold the viewer's attention.

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08. The science which deals with the sound insulation in a building is known as _____

A. Reverberation

B. Transmission

C. Acoustics

D. Air borne

Answer key

C. Acoustics

Theory

The terms sound insulation, all soundproofing is used to indicate the reduction in the level of sound when it passes through a building component. Acoustics becomes very essential in some buildings like cinema hall, Auditorium, Opera House, etc.

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