

NATA 2021 CAAD BITESIZE

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EDUCATION**

**ANNA
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CODE**

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**BITESIZE
17**

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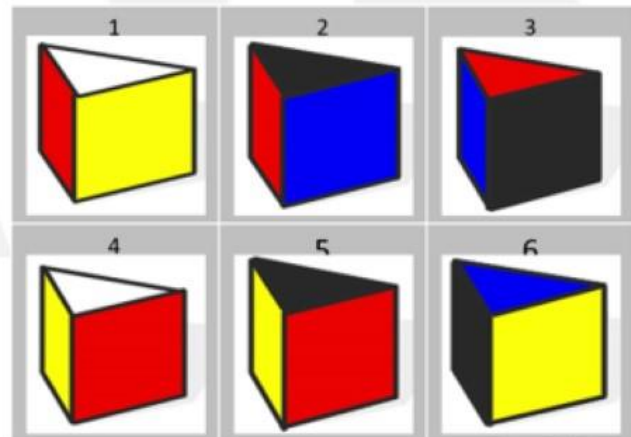
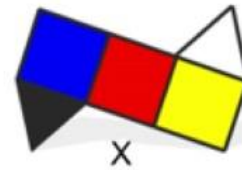
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▪ **DIAGRAMMATIC REASONING / LOGICAL REASONING**

- NUMERICAL REASONING
- VERBAL REASONING / SITUATIONAL JUDGEMENT
- INDUCTIVE REASONING
- ABSTRACT REASONING
- ART MOVEMENT AND HISTORY
- VISUAL PERCEPTION
- BUILDING MATERIALS AND CONSTRUCTION

01. Which are the resultant forms we get when the layout in figure X is folded into a triangular prism?



Source: CAAD-DRB

A. Images 1,2 & 3

B. Images 1,2 & 5

C. Images 2,3 & 4

D. Images 3,5 & 6

Answer key



B. Images 1,2 & 5

Theory

- Mentally form a picture of the prism being folded.
- Keep track on the colour and the shapes of each side of the form.

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Answer key

B. 126.Sq.ft

02. A rectangular parking space is marked out by painting three of its sides. If the length of the unpainted side is 9 feet, and the sum of the lengths of the painted sides is 37 feet, then what is the area of the parking space in square feet?

A. 146 Sq.ft

B. 126 Sq.ft

C. 222 Sq.ft

D. 356 Sq.ft

Theory



Given :

The one the side rectangle = 9ft

The sum of remaining three sides = 37ft

Solution

The sum of remaining two sides = 28ft

The length of the other side rectangle is $28/2 = 14$ ft

So, The length and Width of the rectangle is 14×9

= 126 sq.ft

(or)

Clearly, we have: $l = 9$ and $l + 2b = 37$ or $b = 14$

Area = $(l \times b) = (9 \times 14)$ sq. ft. = 126 sq. ft.

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03. A part of the sentence is *italicised and underlined*. Below are given alternatives to the italicised part which may improve the sentence. Choose the correct alternative. In case no improvement is needed, option 'D' is the answer.

When the examinations were over Anil and me went to our native town.

A. me and Anil

B. Anil and I

C. I and Anil

D. No improvement

Answer key:

B. Anil and I

Explanation

*I should be used instead of **me**, as the pronoun here is the subject of the verb. Me is used when the pronoun is the object of the verb. And I is used after Anil for prioritising the named person.*

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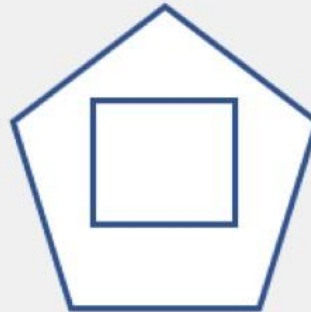
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04. The figures given below share a common feature. Identify the figure that does NOT share the same feature.

A.



B.



C.



D.



Source: CAAD DRI

Answer key

C.



Theory

All shapes contains one shape within another. In all the shapes the outer shapes has one more edge than the inner shape so the odd one is option C.

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05. Find the odd figure out in the figures given below.



A



B



C



D

A. Option A

B. Option B

C. Option C

D. Option D

Answer key

A.



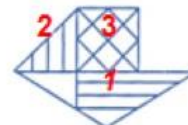
Theory



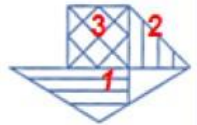
A



B



C



D

Options C and D are mirror images of the same object. Option B is obtained by rotating Option D through 180 degrees. Option A is quite similar to option B but the pattern in 1 is different from the other options. So Option A is the odd one out in the image set.

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06. IIM Ahmedabad was designed by the famous architect _____.



A. Charles Correa

B. B.V. Doshi

C. Louis khan

D. Anant Raje

Answer key

C. Louis khan

Theory

Completed in 1974, the Indian Institute of Management Ahmedabad, better known as IIM Ahmedabad or simply IIMA, is a management institute located in Ahmedabad, India. The old campus was designed by Louis Kahn, who was an exponent of exposed-brick architecture, with the help of B.V. Doshi & Anant Raje. The plan's most distinctive features are the numerous arches, and square brick structures with circles carved out in the façade. The extensive complex includes a library, teaching facilities, and residential buildings.

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07. Identify the principles of design that have been established in the given composition.



A. Axis, Balance, Hierarchy

B. Axis, Balance, Datum

C. Datum, Balance, Dominance

D. Hierarchy, Balance, Dominance

Answer key

A. Axis, Balance, Hierarchy

Theory:

AXIS: A Line established by two points in space about which forms 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 a 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. _____ are the windows which are provided on the sloping surface of a pitched roof to provide light to the inner portion of the building.



Source: roundhayroofing.co.uk

A. Skylight

B. Bay Windows

C. Clerestorey

D. Lantern

Answer key

A. Skylight

Theory

A skylight (sometimes called a roof light) is a light-transmitting structure that forms all or part of the roof space of a building for daylighting purposes. They are usually provided with fixed glass panels, properly treated by lead flashing to make the glass edges waterproof.

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