NATA 2021 CAAD BITESIZE

21.06.2021 **PCQ/MCQ/MSQ/NAQ**

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Prepared by
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ANNA UNIVERSITY COUNSELLING CODE

1152

BITESIZE 01

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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. If you fold the following image along the dotted line, which of the four following options will the final shape resemble?
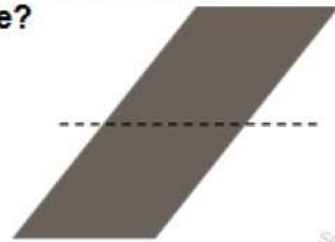
Source: CAAD- DRL

A.

B.

C.

D.

Answer key

C.

Theory

OTHER SOLIDS IN TWO & THREE DIMENSIONS
These questions use irregular solid shapes as a layout and the question is to identify the three dimensional form arrived at by folding.

Key strategy - Use the process of elimination. Consider the connection between four visible faces and look out for patterns / shades.

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02. A Body A of mass 2 kg and another body B of mass 4 kg made of the same material are kept together in the sunshine for some interval of time. If the rise in temperature is equal for both the bodies, then which one among the following in this regard is correct?

A
2 kg

B
4 kg

A. Heat absorbed by B is double because its mass is double	B. Heat absorbed by A is double because its mass is half
C. Heat absorbed by Both A and B is equal because the quantity of heat absorbed does not depend upon mass	D. Heat absorbed by B is four times than the heat absorbed by A because the quantity of heat absorbed is proportional to square of the mass

Answer key

A. Heat absorbed by B is double because its mass is double

Theory

Both the bodies are of the same material. So their heat capacity (S) will be the same.
Temperature rise (Δ T) for both the bodies is the same.
Given that;
  - *Mass of A (mA) = 2 kg*
  - *Mass of B (mB) = 4 kg*
  - *Temperature changes (Δ T) is same for both*
Heat absorbed by A is
    $\Rightarrow Q_A = m_A\, S\, \Delta T = 2 \times S \times \Delta T = 2\, S\, \Delta T$
Heat absorbed by B is
    $\Rightarrow Q_B = m_B\, S\, \Delta T = 4 \times S \times \Delta T = 4\, S\, \Delta T$
    = 2 × Heat absorbed by A (QA)
Hence Option A is correct.

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03. Find the synonym of the underlined word

The speaker <u>demonstrated</u> her knowledge of the subject by an excellent speech.

A. Created	B. Repeated
C. Showed	D. Proved

Answer key:

C.   Showed

Theory

'Demonstrate' means to clearly show the existence or truth of (something) by giving proof or evidence.

In this context, the speaker demonstrated her knowledge means that she showed her knowledge of the subject.

Hence, option D is correct and the others are not.

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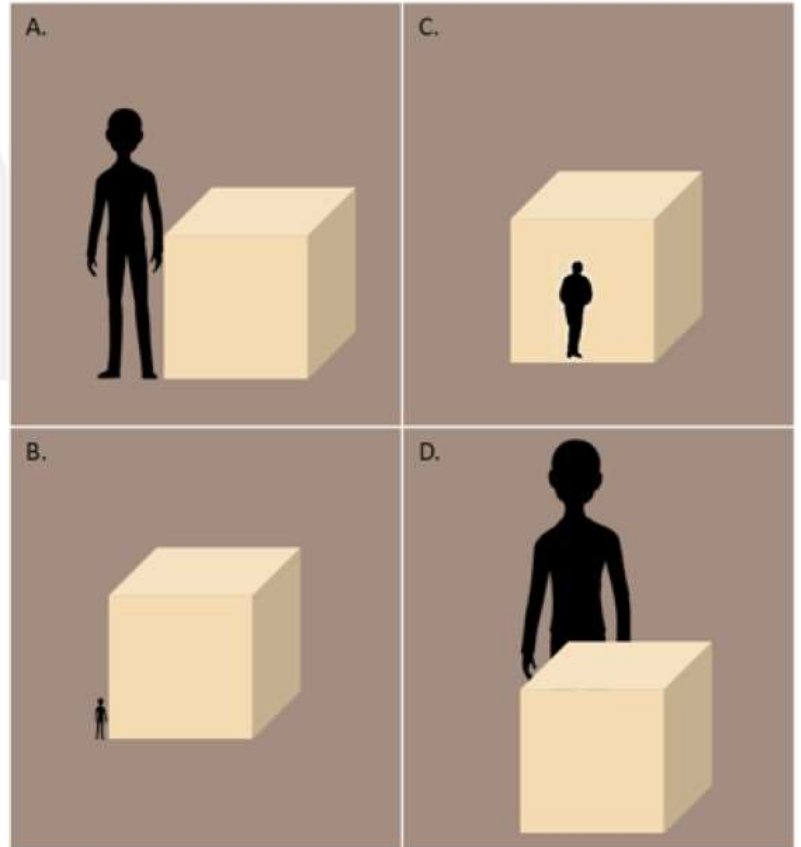- VERBAL REASONING / SITUATIONAL JUDGEMENT

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04. Based on human scale and proportion, identify the cube which represents a multistoried building.

A.

C.

B.

D.

Answer key

B.

Theory

The term 'proportion' refers to the relationship of one part to another or to the whole, or between one object and another. This relationship may be one of magnitude, quantity, or degree.

The height of the space is perceived in proportion to the human height and it dictates the spatial usage. Measurable change in the height of a ceiling seems to have a greater effect on our impression of a space

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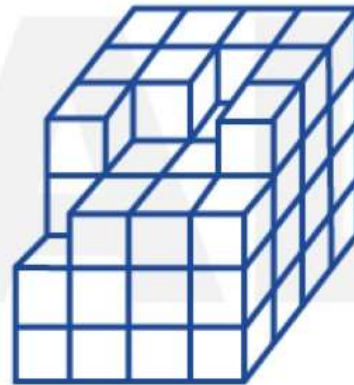- VERBAL REASONING / SITUATIONAL JUDGEMENT

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05. How many identical small cubes is the following figure made up of?
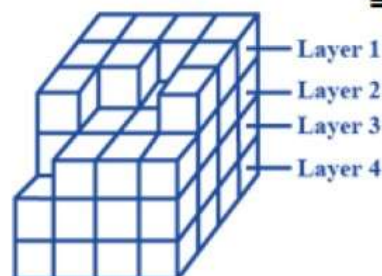

A. 56	B. 55
C. 54	D. 52

Answer key

A. 56

Theory

Number of cubes in the Layer 1	=9
Number of cubes in the Layer 2	=15
Number of cubes in the Layer 3	=16
Number of cubes in the Layer 4	=16
∴ Total number of cubes	=9+15+16+16
	=56..

Layer 1
Layer 2
Layer 3
Layer 4

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06. Name the famous Artist who painted this painting?

A. Pablo Picasso	B. Leonardo da Vinci
C. Michelangelo	D. Claude Mont

Answer key

B.   Leonardo da Vinci

Theory

Leonardo da Vinci (1452-1519) was a painter, architect, inventor, and student of all things scientific. His natural genius crossed so many disciplines that he epitomized the term "Renaissance man." Today he remains best known for his art, including two paintings that remain among the world's most famous and admired, Mona Lisa and The Last Supper.

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07. What are the main TWO elements of design in this image?

Image source: https://quizizz.com/admin/quiz

A. Line and Shape	B. Colour and Texture
C. Line and Texture	D. Shape and Colour

Answer key

C. Line and Texture

Theory

Line - Point that is extended along a direction. Line has length and describes a point in motion. Expresses direction, movement and growth. Line also defines the edges of planes and give them the shape. A Line can articulate the surfaces of planes.

Texture - Texture refers to the surface quality, both simulated and actual, of design. It can create a more three dimensional appearance on this two dimensional surface.

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08. The part of a building constructed below the ground level is known as _____.
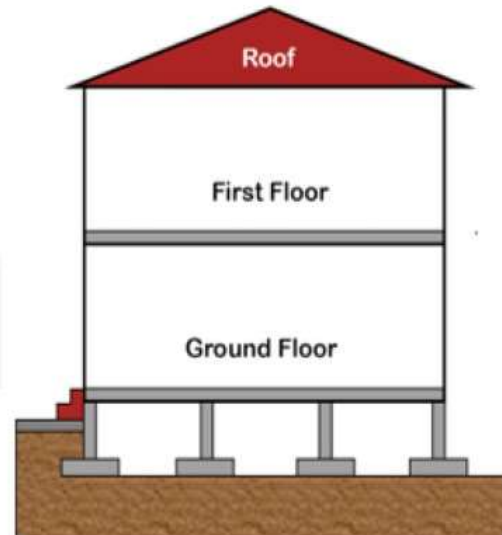
Source: gharpedia.com

A. Plinth	B. Lintel
C. Foundation	D. Superstructure

Answer key

C. Foundation

Theory

Foundation is also known as substructure of the building. It is the critical part of the building constructed below the ground level and which transmits the entire load of the building to the subsoil. Foundations are classified as shallow and deep foundations.

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