NATA 2021 CAAD BITESIZE

24.06.2021 **PCQ/MCQ/MSQ/NAQ**

caad

Prepared by

EXPERTS IN ARCHITECTURE EDUCATION

BITESIZE

04

- **DIAGRAMMATIC REASONING / LOGICAL REASONING**

- NUMERICAL REASONING

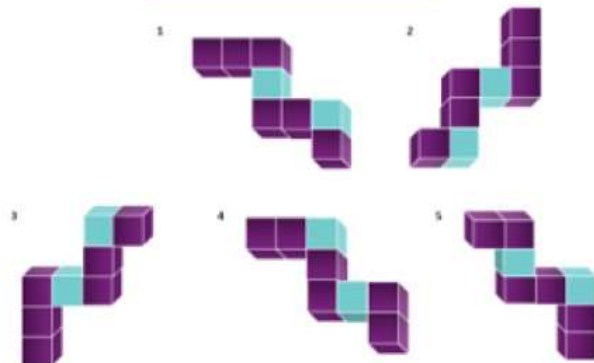- VERBAL REASONING / SITUATIONAL JUDGEMENT

- INDUCTIVE REASONING

- ABSTRACT REASONING

- ART MOVEMENT AND HISTORY

- VISUAL PERCEPTION

- BUILDING MATERIALS AND CONSTRUCTION

01. Sam made this model by joining 6 purple cubes and 2 blue cubes. Then he turns his model in an upright position. Which of the following models will Sam's look like now?

Source: CAAD-DRL

A. Options 4,5	B. Options 1,2, 3
C. Options 1,2,5	D. Options 3, 4

Answer key

B. Options 1,2, 3

Theory

GROUP ROTATION (THREE DIMENSIONAL)

In this method, the task is to identify the choices to the original shape/pattern. The multiple choices comprise of the original shape/pattern after single/ multiple rotations.

Key Strategy - Choose the asymmetrical shape in the group and determine how the shape would look like when rotated clockwise or anticlockwise.

- DIAGRAMMATIC REASONING / LOGICAL REASONING

- **NUMERICAL REASONING**

- VERBAL REASONING / SITUATIONAL JUDGEMENT

- INDUCTIVE REASONING

- ABSTRACT REASONING

- ART MOVEMENT AND HISTORY

- VISUAL PERCEPTION

- BUILDING MATERIALS AND CONSTRUCTION

02. A train leaves station X at 5 a.m. and reaches station Y at 9 a.m. Another train leaves station. Y at 7 a.m. and reaches station X at 10.30 a.m. At what time do the two trains cross each other?

X   Y

Starts at 5 am
Reaches Y at 9am

Starts at 7 am
Reaches X at 10.30 am
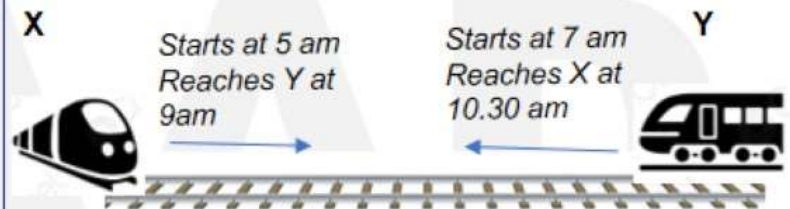
A. 7 : 36 am	B. 8 : 36 am
C. 7 : 56 am	D. 8 : 56 am

Answer key

C. 7:56 am

Theory

Let the distance between X and Y be x km.
Then, the speed of A is x/4 km/h
that of B is 2x/7 km/h.
Relative speeds of the trains
$= x/4 + 2x/7 = 15x/28$ km/h
Therefore the distance between the trains at 7 a.m.
$= x − x/2 = x/2$ km
Hence, time taken to cross each other
$= (x/2)/(15x/28)$
$= x/2 × 28/15x$
$=14/15 × 60$
$= 56$ min.
Thus, both of them meet at 7:56 am

- DIAGRAMMATIC REASONING / LOGICAL REASONING

- NUMERICAL REASONING

- **VERBAL REASONING / SITUATIONAL JUDGEMENT**

- INDUCTIVE REASONING

- ABSTRACT REASONING

- ART MOVEMENT AND HISTORY

- VISUAL PERCEPTION

- BUILDING MATERIALS AND CONSTRUCTION

03. In the question given below, a sentence with four words printed in bold type is given. The parts of the sentence are numbered as (a) (b) (c) and (d). One of these letters printed in bold may be wrongly spelt or inappropriate in the context of the sentence. Find out the word and the number of the part of the sentence containing the word is your answer. If you do not find any mistakes, mark option (e).

A.   By **created** the most precise
B.   **lunar** gravity map, scientists
C.   **hope** to find out
D.   what is **beneath** the lunar surface
E.   All correct

A. Created	B. Lunar
C. Hope	D. Beneath

Answer key:

A. Created

Explanation:

Replace 'create' with 'creating'. Hence, option A is correct.

DAILY PCQ/MCQ/MSQ/NAQ LESSONS

B.Arch., For Admissions Contact **9710 55 4545**
www.caad.ac.in **9710 93 0025**

caad CHENNAI ACADEMY OF ARCHITECTURE AND DESIGN

A STANDALONE ARCHITECTURE COLLEGE IN CHENNAI OF INTERNATIONAL STANDARDS

- DIAGRAMMATIC REASONING / LOGICAL REASONING

- NUMERICAL REASONING

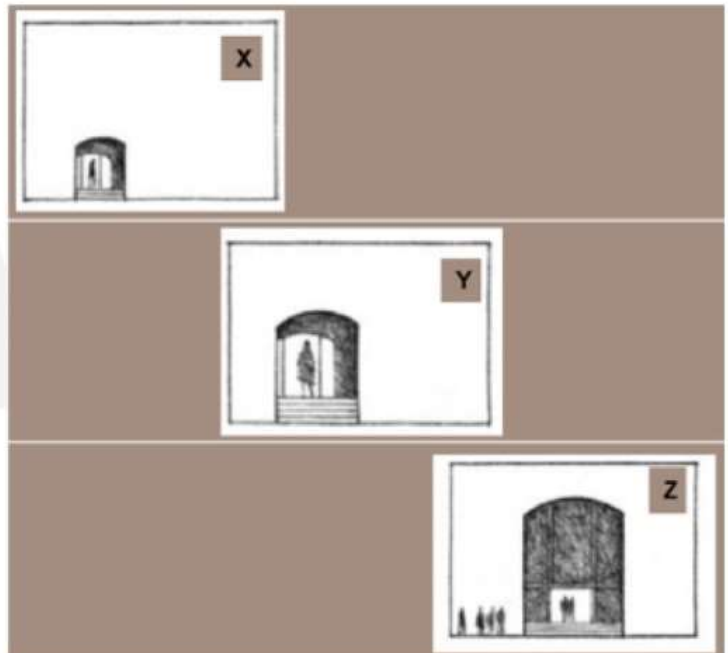- VERBAL REASONING / SITUATIONAL JUDGEMENT

- **INDUCTIVE REASONING**

- ABSTRACT REASONING

- ART MOVEMENT AND HISTORY

- **VISUAL PERCEPTION**

- BUILDING MATERIALS AND CONSTRUCTION

04. Based on human scale and proportions, identify the appropriate image which looks like an entrance to a National Monument.
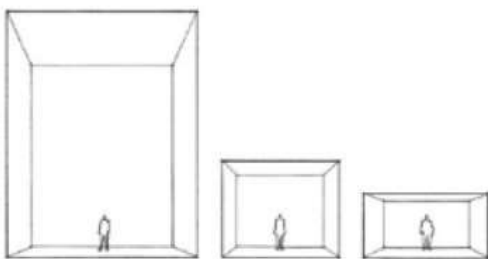
A. Image X	B. Image Z
C. Image Y	D. None of the above

Answer key

B. Image Z

Theory

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

- DIAGRAMMATIC REASONING / LOGICAL REASONING

- NUMERICAL REASONING

- VERBAL REASONING / SITUATIONAL JUDGEMENT

- INDUCTIVE REASONING

- **ABSTRACT REASONING**

- ART MOVEMENT AND HISTORY

- VISUAL PERCEPTION

- BUILDING MATERIALS AND CONSTRUCTION

05. Count the total number of triangles and squares that you can see in the following figure?
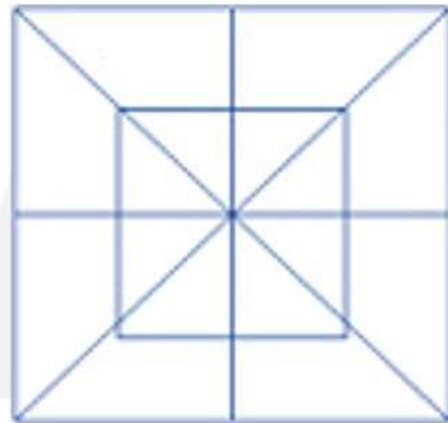
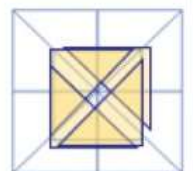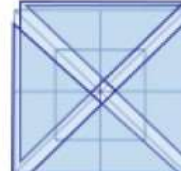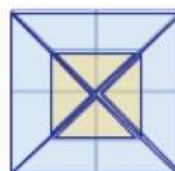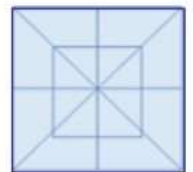| A. 28 Triangles and 10 Squares	B. 28 Triangles and 8 Squares
C. 32 Triangles and 10 Squares	D. 32 Triangles and 8 Squares

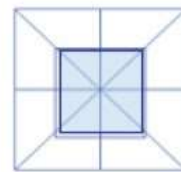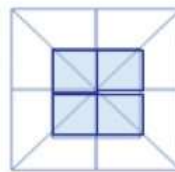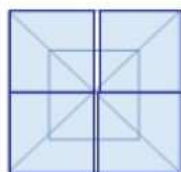**Answer key**

C. 32 Triangles and 10 Squares

Theory

No. of Squares = 4 + 4 + 1 + 1 = 10
No. of Triangles = 8 + 8 + 4 + 4 + 4 + 4 = 32
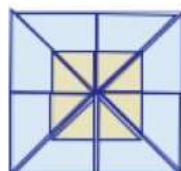
DAILY PCQ/MCQ/MSQ/NAQ LESSONS

B.Arch., For Admissions Contact **9710 55 4545**
www.caad.ac.in **9710 93 0025**

caad CHENNAI ACADEMY OF ARCHITECTURE AND DESIGN

A STANDALONE ARCHITECTURE COLLEGE IN CHENNAI OF INTERNATIONAL STANDARDS

- DIAGRAMMATIC REASONING / LOGICAL REASONING

- NUMERICAL REASONING

- VERBAL REASONING / SITUATIONAL JUDGEMENT

- INDUCTIVE REASONING

- ABSTRACT REASONING

- **ART MOVEMENT AND HISTORY**

- VISUAL PERCEPTION

- BUILDING MATERIALS AND CONSTRUCTION

06. During which civilization were The Great Pyramids built?

A. Egyptian Civilization	B. Roman Civilization
C. Greek Civilization	D. Mesopotamian Civilization

Answer key

A. Egyptian Civilization

Theory

Built during a time when Egypt was one of the richest and most powerful civilizations in the world, the pyramids—especially the Great Pyramids of Giza—are some of the most magnificent man-made structures in history. Their massive scale reflects the unique role that the pharaoh, or king, played in ancient Egyptian societies.

- DIAGRAMMATIC REASONING / LOGICAL REASONING

- NUMERICAL REASONING

- VERBAL REASONING / SITUATIONAL JUDGEMENT

- INDUCTIVE REASONING

- ABSTRACT REASONING

- ART MOVEMENT AND HISTORY

- **VISUAL PERCEPTION**

- BUILDING MATERIALS AND CONSTRUCTION

07. Identify the elements of design in this composition by the artist Wassily Kandinsky.

1. Line	3. Triangle	5. Pentagon	7. Octagon
2. Circle	4. Square	6. Semicircle	8. Dot

Answer key

Line, Circle, Triangle, Square, Dot

Theory:

MSQ

Elements of Design are
- *Point*
- *Lines*
- *Shape*
- *Space*
- *Colour*
- *Form*
- *Texture*

- DIAGRAMMATIC REASONING / LOGICAL REASONING

- NUMERICAL REASONING

- VERBAL REASONING / SITUATIONAL JUDGEMENT

- INDUCTIVE REASONING

- ABSTRACT REASONING

- ART MOVEMENT AND HISTORY

- VISUAL PERCEPTION

- BUILDING MATERIALS AND CONSTRUCTION

08. _____ means movement of air within the building, and, between buildings and the outdoors

Source: beepindia.org

A. Habitation	B. Transmission
C. Sanitation	D. Ventilation

Answer key

D. Ventilation

Theory

Ventilation is the process by which 'clean' air (normally outdoor air) is intentionally provided to a space and stale air is removed. This is the flow of air into a space through openings in the building such as doors and windows.

DAILY PCQ/MCQ/MSQ/NAQ LESSONS

B.Arch.,

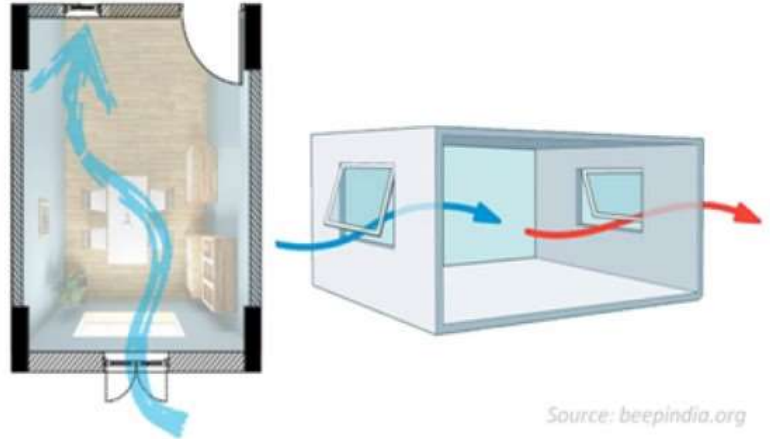For Admissions Contact 9710 55 4545
www.caad.ac.in 9710 93 0025

caad CHENNAI ACADEMY OF ARCHITECTURE AND DESIGN

A STANDALONE ARCHITECTURE COLLEGE IN CHENNAI OF INTERNATIONAL STANDARDS