

# NATA 2022 SESSION 1 (MORNING)

Q.1 If the average of 20 numbers is zero, how many numbers could be greater than zero? [Marks:1]

Options :

- a. 19
- b. 49
- c. 17
- d. 33

• Correct Answer : a

Q.2 The dimensions of a hall are 40 m, 25 m and 20 m. If each person requires 200 cubic meters, find the number of persons who can be accommodated in the hall. [Marks:1]

Options :

- a. 150
- b. 140
- c. 120
- d. 100

• Correct Answer : d

Q.3 A cyclist moving at a speed of 20 km/hr crosses a bridge in 2 minutes. What is the length of the bridge? [Marks:1]

Options :

- a. 555.5 m
- b. 444.4 m
- c. 777.7 m
- d. 666.6 m

• Correct Answer : d

Q.4 The value of  $(0.333...) \times (0.44...)$  is [Marks:1]

Options :

- a. 0.121212....
- b. 1.3333.....
- c. 0.777.....
- d. 0.148148148.....

• Correct Answer : d

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Q.5 In a 100 m race, A covers the distance in 36 seconds and B covers in 45 seconds. In this race, A beats B by \_\_\_\_\_? [Marks:1]

Options :

- a. 20 m
- b. 25 m
- c. 22.5 m
- d. 9 m

• Correct Answer : a

Q.6 The sides of a triangle are in the ratio 10: 24:26 and its perimeter is 300 m. [Marks:1]  
What is its area?  
(Answer to be provided in m<sup>2</sup> )

• Correct Answer : 3000

Q.7 If  $(\sqrt{3})^5 \times 9^2 = 3^x \times 3\sqrt{3}$ , then x equals [Marks:1]

• Correct Answer : 5

Q.8 The respective ratio of milk and water in a solution is 7: 9. After adding 8 [Marks:1]  
litres another solution in which concentration of milk is 50%, the respective  
ratio of milk and water becomes 4: 5. Find the original quantity of milk  
present in the solution?  
(Answer to be provided in litres)

• Correct Answer : 28

Q.9 Shatabdi Express has a capacity of 600 seats out of which 15% is in the [Marks:1]  
Special VIP class, rest being VIP class seats. During its journey the train  
was booked to 80% of its full capacity. If Special VIP class was booked to  
70% of its capacity, how many VIP class seats were empty during that  
journey?

• Correct Answer : 93

Q.10 How many times the hands of a clock coincide in a day? [Marks:1]

• Correct Answer : 22

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Q.11 Out of the following pairs, which one does not have identical dimension? [Marks:1]

Options :

- a. Impulse and Momentum
- b. Work and Torque
- c. Angular momentum and Planck's constant
- d. Moment of inertia and moment of a force

• Correct Answer : a Answer key changed

Q.12 On a stationary sail boat, if air is blown from a fan attached to the boat, what happens to the boat? [Marks:1]

Options :

- a. Moves in opposite direction in which the air is blown
- b. Moves in the same direction in which air blows
- c. Does not move
- d. Spins around

• Correct Answer : c

Q.13 Free surface of a liquid behaves like a sheet and tends to contract to the smallest possible area due to which of the following? [Marks:1]

Options :

- a. Force of adhesion
- b. Force of cohesion
- c. Centrifugal force
- d. Force of friction

• Correct Answer : b

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Q.14 Change of seasons could occur due to a combination of which of the following? [Marks:1]

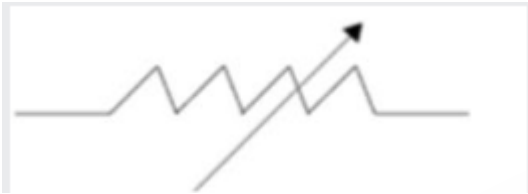
- I. Earth's revolution
- II. Earth's rotation
- III. Inclination of Earth's axis

Options :

- a. I and II only
- b. II and III only
- c. I and III only
- d. I, II and III

• Correct Answer : c

Q.15 The given symbol represents ..... electrical component. [Marks:1]



Options :

- a. Rheostat
- b. Ammeter
- c. Electric bulb
- d. Resistor

• Correct Answer : a

Q.16 Which is best used as a sound absorbing material in partition walls? [Marks:1]

Options :

- a. Stone chips
- b. Glass wool
- c. Steel
- d. Plastic boards

• Correct Answer : b

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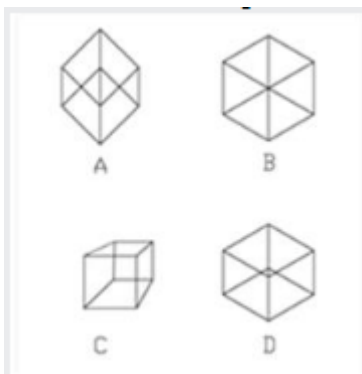
Q.17 In a particular system, the unit of length, mass and time are chosen to be 10 cm, 10 g and 0.1 s respectively. The unit of force in this system will be equivalent to [Marks:1]

Options :

- a. 10 N
- b. 1 N
- c. 0.1N
- d. 100N

• Correct Answer : c

Q.18 Which of the following wire diagrams of a cube is an isometric view [Marks:1]



Options :

- a. A
- b. B
- c. C
- d. D

• Correct Answer : b

Q.19 In the 3-Dimensional figure shown below some of the surfaces are shaded completely and some others partly. From the area of the visible surfaces what is the percentage of area not shaded? [Marks:1]



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Options :

- a. 33.33%
- b. 45.55%
- c. 50%
- d. 66.67%

• Correct Answer : d

Q.20 Which of the following is incorrect?

[Marks:1]

Options :

- a. An incentre is a point where the angle bisectors meet.
- b. The median of any side of a triangle bisects the side at right angle.
- c. The point at which the three altitudes of a triangle meet is the orthocentre
- d. The point at which the three perpendicular bisectors meet is the centre of the circumcircle.

• Correct Answer : b

Q.21 When two lines intersect what is the shortest distance between them?

[Marks:1]

Options :

- a. 0
- b. 1
- c. 2
- d. 0.5

• Correct Answer : a

Q.22 The angles of a triangle are in the ratio 1:2:7. What is the measure of the smallest angle

[Marks:1]

• Correct Answer : 36

Answer key changed

Q.23 The length of a rectangular plot is 40 meters more than its breadth. If the total cost of fencing the plot at Rs.50 per meter is Rs. 10,000, what is the length of the plot in meters?

[Marks:1]

(Answer to be provided in m)

• Correct Answer : 100

Answer key changed

Q.24 The sum of the measures of the angles of regular polygon is  $2160^\circ$ . How many sides does the polygon have?

[Marks:1]

• Correct Answer : 14

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Q.25 Find the area of a square, one of whose diagonals is 9.2 m long.  
(Provide answer in sq m)

[Marks:1]

- Correct Answer : 42.32

Q.26 Chose the misspelt word from among the following:

[Marks:1]

Options :

- a. Grief
- b. Tariff
- c. Belief
- d. Mischeif

- Correct Answer : d

Q.27 Out of the four alternatives, choose the one which can be substituted for the given sentence.

[Marks:1]

*"To secure a boat by attaching it to an anchor".*

Options :

- a. Moor
- b. Moot
- c. Moose
- d. Most

- Correct Answer : a

Q.28 Choose from the following, the correct **synonym** of the given word  
"Exorbitant"

[Marks:1]

Options :

- a. Odd
- b. Ridiculous
- c. Excessive
- d. Threatening

- Correct Answer : c

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Q.29 Choose from the following, the correct **antonym** of the given word  
"Suspend"

[Marks:1]

Options :

- a. Pend
- b. Switch
- c. Resume
- d. Turn on

• Correct Answer : c

Q.30 Choose the correct word that best fits in the blank:

[Marks:1]

"It is dangerous to enter \_\_\_\_\_ the enemy's camp".

Options :

- a. through
- b. into
- c. in
- d. on

• Correct Answer : b

Paragraph:

What is discipline? Is it absolute freedom to do what a person wants? Does it mean corrective action after a problem occurs or wrong is done? Is it abuse? Does it take away freedom? The answer is none of the above.

Discipline is loving firmness. It is direction. It is prevention before a problem arises. It is harnessing and channelizing energy for great performance. Discipline is not something you do to but you do for those you care about.

Discipline is an act of love. Sometimes you have to be unkind to be kind: Not all medicine is sweet, not all surgery is painless, but we have to take them. We need to learn from nature. Young animals are taught right from day one that survival in a jungle is not easy and comes with training and discipline.

Children brought up in a loving, disciplined environment end up respecting their parents more and become law-abiding citizens. The reverse is just as true. Good parents are not afraid of a momentary dislike by children to enforce the subject. Allowing a child to eat a box of chocolates could lead to sickness. At the same time, the discipline of eating one or two pieces a day can be an enjoyable experience for a longer time. Freedom is not procured by a full enjoyment of what is desired but controlling the desire.

Answer the following 4 questions based on the text outlined by choosing the appropriate option



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Q.31 what according to the writer is not discipline?

[Marks:1]

Options :

- a. giving absolute freedom
- b. hitting or abusing a child
- c. is an act of love
- d. is loving firmness

• Correct Answer : a

Q.32 How can we prevent a problem from surfacing?

[Marks:1]

Options :

- a. taking steps before the problem occurs
- b. facing the problem
- c. correcting it after the problem occurs
- d. analyzing the problem

• Correct Answer : a

Q.33 What is the role played by parents in creating law-abiding citizens?

[Marks:1]

Options :

- a. worrying for their momentary dislikes
- b. believing in full enjoyment of desire
- c. creating a loving, disciplined environment
- d. not respecting the society

• Correct Answer : c

Q.34 What does the word '**corrective**' mean

[Marks:1]

Options :

- a. Improve
- b. Remedial
- c. Enforce
- d. Improper

• Correct Answer : b

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Paragraph:

Digital art is an artistic work or practice that uses digital technology as part of the creative or presentation process.

(A) One of the forms of digital art is **pixel art** where images are built with the exclusive and intentional placement of pixels.

(B) **Digital photo painting** permits photographs to be turned into enchanting paintings produced in any style as desired.

(C) **Digital collage** is another form of art that is created by layering together virtual images from various sources into a new piece of art.

(D) **3 D painting** is an art form that allows one to paint a texture straight on to a 3 D model. This is similar to 2D painting but requires knowledge of texturing and working with 3D assets.

From the given set of 4 digital art images identify which category of digital art they fall into.

Q.35

[Marks:1]



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Options :

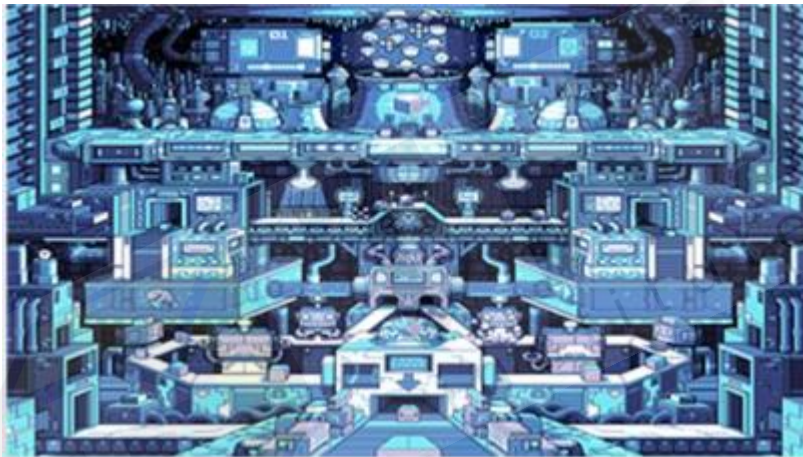
- a. (A)
- b. (B)
- c. (C)
- d. (D)

• Correct Answer : d

Q.36



[Marks:1]



Options :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

• Correct Answer : a

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Q.37

[Marks:1]



Options :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

• Correct Answer : c

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Q.38

[Marks:1]



Options :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

• Correct Answer : d



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## Paragraph:

Life on our planet earth began with the sea; it is the birth place of life on the earth. The earth is the only planet of the solar system so far known which contains plenty of water. At present the sea occupies about 70% of the earth's surface. About 97% of the total water on the surface of the earth is found in the seas and the remaining three per cent, which is generally fresh, in lakes, rivers, ponds etc.

Sea has given food and shelter to countless creatures. It is a potential source of protein. In 1900 the world's population was only 150 crores, now it is more than 560 crore and is increasing at a very fast rate. Many die of malnutrition in the Asian, African and South American continents. Sea, if used scientifically and judiciously, can meet most of our demands.

Plankton or algae mostly constitutes the plant life. Some are tiny microbes which cannot be seen by the naked eye but they are found in abundance in the sea. These marine plankton form the basis of entire sea life. Like plant plankton there are animal plankton the smallest living creatures of the sea. These feed on plant plankton and small fish. Thus, there is an unbroken chain of life in the sea.

Some countries have developed sea farming to a great extent. The Japanese and Hawaiians relish eating sea plants but it is not in other countries though some use them to feed cattle or as manure in their fields. The fact is that sea plants contain rich nutrients not found in other vegetarian food. It is good that even in our country some scientists have developed some recipes for curries, jams, etc to be made from algae.

Answer the following 4 questions based on the text outlined by choosing the appropriate option

Q.39 Freshwater refers to the water of

[Marks:1]

Options :

- a. Sea
- b. Lakes, rivers and ponds
- c. Rainwater
- d. Bottled water

• Correct Answer : b

Q.40 There is terrible hunger in most parts of the world due to

[Marks:1]

Options :

- a. Overpopulation
- b. High pollution level
- c. Global warming
- d. Industrialization

• Correct Answer : a

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Q.41 Plankton or algae mostly constitutes which of the following

[Marks:1]

Options :

- a. Animal life
- b. Wild life
- c. Plant life
- d. Sea life

• Correct Answer : c

Q.42 Sea plants contain rich nutrients not found in which of the following?

[Marks:1]

Options :

- a. Other plants
- b. Other vegetarian food
- c. Non vegetarian food
- d. Other animals

• Correct Answer : b

Paragraph:

You may have heard of 3-D movies. You may have even seen one. The D in 3-D stands for dimensional. A dimension is a path and something that can be measured. Flat things can be measured in two ways. They can be measured by sides- length and width. That's why flat things are sometimes called 2-D or two-dimensional. Three-dimensional things can be measured in three ways. They can be measured by length and width like flat things and they can also be measured by their height. Height is what lets them come up off the paper or the screen. Let's look at some of the most common solids.

.A cube has six square sides. The sides are called faces

.A cube has six square sides. The sides are called faces



A rectangular prism has six sides that are all shaped like rectangles.



A sphere is shaped like playground ball.



A square pyramid has a square on the bottom, and four triangle-shaped sides.



Answer the following 4 questions based on the text outlined by choosing the appropriate option

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Q.43 What is a dimension?

[Marks:1]

Options :

- a. length
- b. height
- c. width
- d. path

• Correct Answer : d

Q.44 What are three-dimensional shapes called in math?

[Marks:1]

Options :

- a. blocks
- b. solids
- c. faces
- d. object

• Correct Answer : b

Q.45 How can flat, two-dimensional things be measured?

[Marks:1]

Options :

- a. height and width
- b. length and width
- c. length and height
- d. none

• Correct Answer : b

Q.46 What does a sphere look like in 2D?

[Marks:1]

Options :

- a. Circle
- b. Arc
- c. Ellipse
- d. Concave

• Correct Answer : a



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Paragraph:

Vernacular architecture is an architectural language built in direct response to readily available materials, climate and the sheltering needs of the local people. Materials of construction and form making navigate a curious mix of heat, cold, dryness, humidity and heavy rainfall using indigenous materials.

Some of the indigenous roofing materials used in vernacular constructions of tropical and temperate climates are:

(A) **Bamboo** is split and used as roof tiles or woven into mats to use as partitions

(B) **Cane** being a flexible stem provides many opportunities for the design and shape of the roof

(C) **Grass thatch** is a very old roofing method wherein the grass is densely packed and layered to shed water away from the roof.

(D) **Coconut leaves** are used for roofing in their natural form, as they are cut from the tree or alternatively the leaf blades are woven into mats.

From the given set of 4 images identify the vernacular roofing material

Q.47

[Marks:1]



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Options :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

• Correct Answer : b

Q.48



[Marks:1]



Options :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

• Correct Answer : c

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Q.49

[Marks:1]



Options :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

• Correct Answer : d

Q.50

[Marks:1]



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Options :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

• Correct Answer : a

Q.51 A wall constructed to resist the pressure of an earth filling, is called

[Marks:2]

Options :

- a. Retaining wall
- b. Bow wall
- c. Buttress
- d. Parapet wall

• Correct Answer : a

Q.52 Which of the following is not a manmade structure?

[Marks:2]

Options :

- a. Parthenon
- b. Cave
- c. Dolmen
- d. Vaults

• Correct Answer : b



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Q.53 Which among the following is a *pure columnar and trabeate* structure?

[Marks:2]

Options :

- a. Stonehenge, UK
- b. Colosseum, Rome
- c. Jama Masjid, N Delhi
- d. Chord Bridge, Israel

• Correct Answer : a

Q.54 When a cavity wall is constructed as an external wall what is its primary function?

[Marks:2]

Options :

- a. Insulation
- b. Moisture prevention
- c. Trap insects and rodents
- d. To run water pipes

• Correct Answer : a

Q.55 The Eiffel Tower, Paris is a structure built with \_\_\_\_\_.

[Marks:2]



Options :

- a. Concrete
- b. Timber
- c. Steel
- d. Masonry

• Correct Answer : c

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Q.56 Ellora caves are situated near

[Marks:1]

Options :

- a. Ajmer
- b. Jaipur
- c. Aurangabad
- d. Patna

• Correct Answer : c

Q.57 Who among the following actors has won the Best Actor award at the 94th Oscar awards? [Marks:1]

Options :

- a. Andrew Garfield
- b. Benedict Cumberbatch
- c. Will Smith
- d. Denzel Washington

• Correct Answer : c

Q.58 Exposure to sunlight helps a person improve his health because

[Marks:1]

Options :

- a. the infrared light kills bacteria in the body
- b. the ultraviolet rays convert skin oil into Vitamin D
- c. the pigment cells in the skin get stimulated and produce a healthy tan
- d. resistance power increases

• Correct Answer : b

Q.59 Which is the oldest architectural school in India?

[Marks:1]

Options :

- a. School of Architecture at MS University, Baroda
- b. Sir J J School of Architecture, Mumbai
- c. School of Architecture at Arts College, Lucknow
- d. Department of Architecture, IIT, Kharagpur

• Correct Answer : b

Q.60 This picture relates to which festival celebrated in India

[Marks:1]

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Options :

- a. Diwali
- b. Dussehra
- c. Holi
- d. Navaratri

• Correct Answer : c

Q.61 Which of the following days is often considered as the start of the modern Environmental movement? [Marks:1]

Options :

- a. World Wetland day
- b. World forestry day
- c. Earth Day
- d. World Environment Day

• Correct Answer : c

Q.62 How many major Tectonic Plates does the earth have?

[Marks:1]

Options :

- a. 7
- b. 4
- c. 5
- d. 3

• Correct Answer : a

Q.63 If  $p$ ,  $q$  and  $r$  are arithmetic operations then find the appropriate functions which will yield the result as number 3. [Marks:2]

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$$3 \boxed{p} 7 \boxed{q} 6 \boxed{r} 3 = 3$$

Options :

- |                 |              |              |
|-----------------|--------------|--------------|
| a. $p = \times$ | q = $\div$   | r = -        |
| b. $p = +$      | q = -        | r = -        |
| c. $p = \times$ | q = $\times$ | r = +        |
| d. $p = \times$ | q = -        | r = $\times$ |

• Correct Answer : d

Q.64  $18 : 30 :: 36 : ?$

[Marks:2]

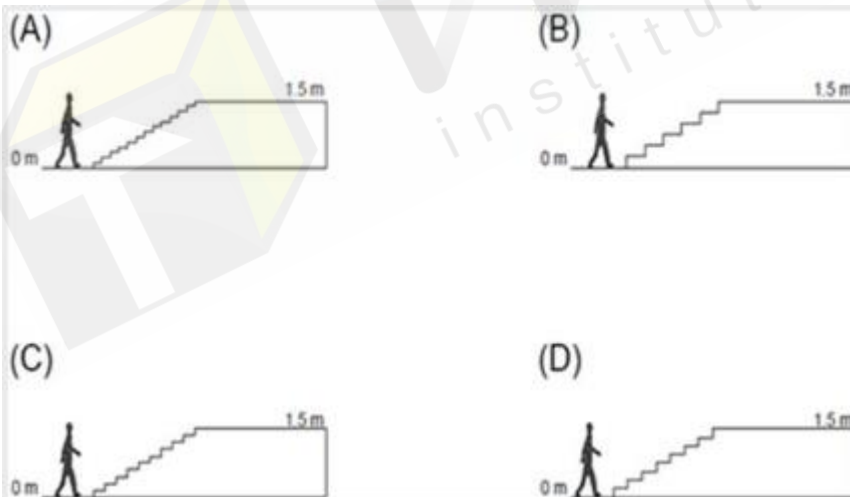
Options :

- a. 54
- b. 72
- c. 64
- d. 66

• Correct Answer : d

Q.65 Identify the ideal sectional diagram if the person has to reach from zero level to 1.5m level, assuming the stairs are designed with the standard rise of 150mm.

[Marks:2]





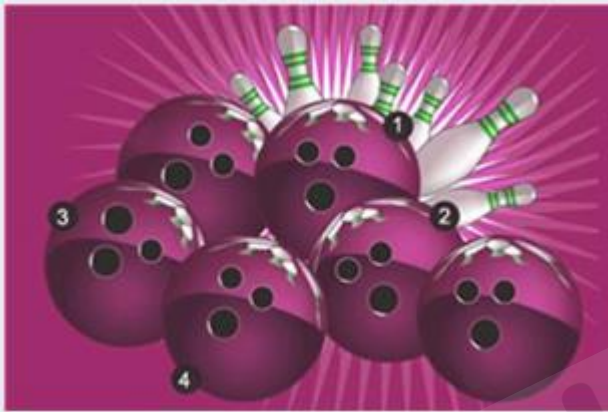
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Options :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

• Correct Answer : c

Q.66 Find the ODD ball out from the given image below from the given options of ball 01, ball 02, ball 03 and ball 04. [Marks:2]



Options :

- a. Ball 01
- b. Ball 02
- c. Ball 03
- d. Ball 04

• Correct Answer : c

Q.67 For the given font how many alphabets (letters) can be divided as equal parts along both vertical and horizontal axis? [Marks:2]

**A B C D E F G H I**  
**J K L M N O P Q**  
**R S T U V W X Y Z**

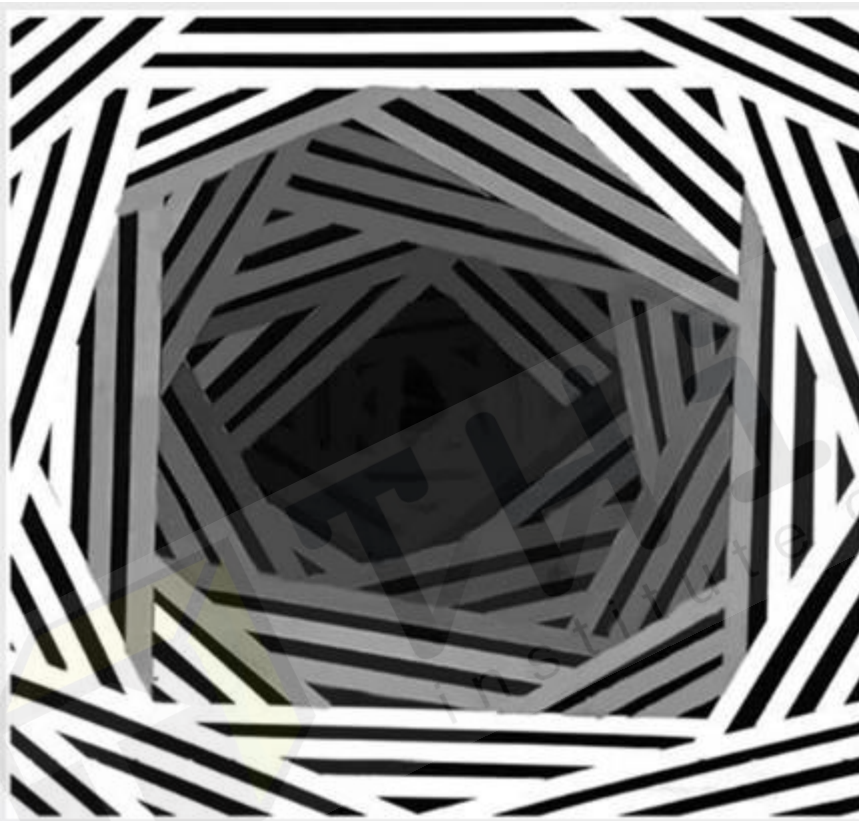
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Options :

- a. Six
- b. Three
- c. Four
- d. Two

• Correct Answer : c

Q.68 Choose any **four most appropriate principles** which can be commonly observed in the given image. [Marks:2]  
(Marks will be awarded only if all answers are right)



Options :

- a. Balance
- b. Depth
- c. Symmetry
- d. Repetition
- e. Parallelism
- f. Focal point
- g. Foreshortening
- h. Contrast
- i. Fluidity

• Correct Answer : b, d, e, f, h

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Q.69 Choose any four most appropriate principles / elements of design which can be commonly observed in the given image.  
(Marks will be awarded only if all answers are right)

[Marks:2]



Options :

- a. Solids
- b. Contrast
- c. Asymmetry
- d. Figure and Ground
- e. Balance
- f. Distortion
- g. Rhythm
- h. Static
- i. Dynamic

• Correct Answer : a, b, c, e, h

Q.70 Choose the design attributes which are **NOT** suitable for the given pyramid examples b  
(Marks will be awarded only if all answers are right)

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Pyramid at Giza, Egypt



Louvre Glass Pyramid, France

Options :

- a. Stone and glass
- b. Unstable & Asymmetry
- c. Dynamism & Fluidity
- d. Imbalance & Movement
- e. Heavy & Light
- f. Opaque & Transparent
- g. Irregular & Fluid
- h. Organic and Inorganic
- i. Stable and Symmetry

• Correct Answer : b, c, d, g, h

Q.71 Identify the popular place from the detail of an edifice given below:

[Marks:2]



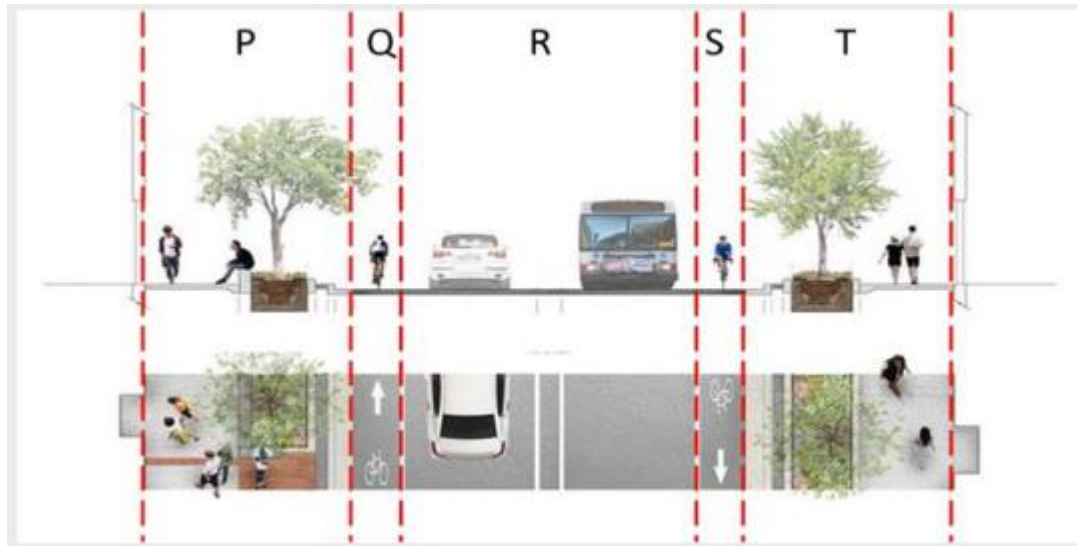
Options :

- a. Karla Caves
- b. Ancient Nalanda University
- c. Sanchi Stupa
- d. Qutb Minar

• Correct Answer : c

Q.72 Identify the zones which are "pedestrian" in the given street views.

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Options :

- a. P and S only
- b. Q and S only
- c. P and T only
- d. Q and T only

• Correct Answer : c

Q.73 Identify the correct pair?

[Marks:2]

Options :

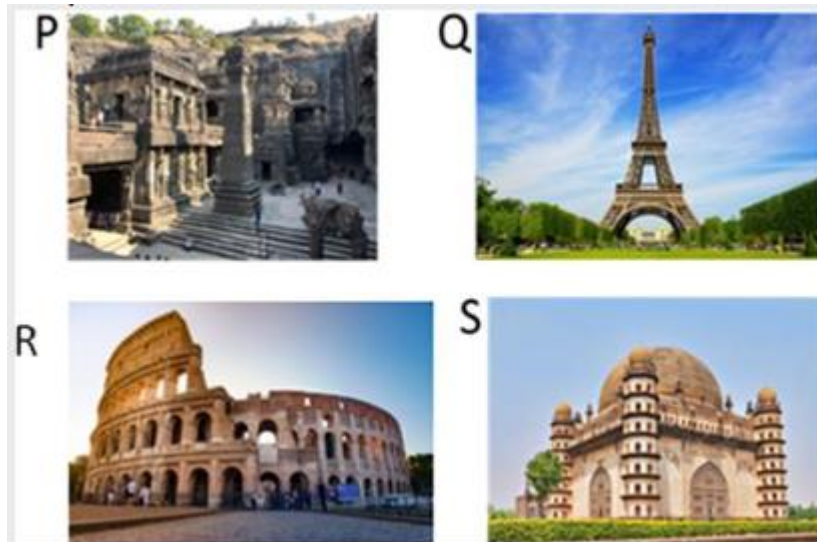
- a. Charles Chorea - IIM Bangalore
- b. Louis I Khan - IIM Ahmedabad
- c. Le Corbusier - IIM Bangalore
- d. B V Doshi - IIM Ahmedabad

• Correct Answer : b

Q.74 Arrange the given architectural monuments in the descending order based on the year of construction. [Marks:2]



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Options :

- a. P - Q - S - R
- b. Q - P - S - R
- c. Q - S - P - R
- d. P - S - Q - R

• Correct Answer : c

Q.75 Who is the architect of the building given in the image below?

[Marks:2]



Options :

- a. Mies Van der Rohe
- b. Frank L Wright
- c. Philip Johnson
- d. Arata Isozaki

• Correct Answer : b

Q.76 Identify the logo from the image given below

[Marks:2]

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Options :

- a. Science Institute
- b. Vaccine manufacturer
- c. Central Government Department
- d. Social Sciences Institute

• Correct Answer : b

Q.77 Identify the Image of a sign board shown below

[Marks:2]



Options :

- a. Keep Left
- b. Highway Division
- c. Roundabout
- d. One way entry

• Correct Answer : b

Q.78 The Logo given below is of the Automobile company Audi. What does the logo symbolize? [Marks:2]



Options :

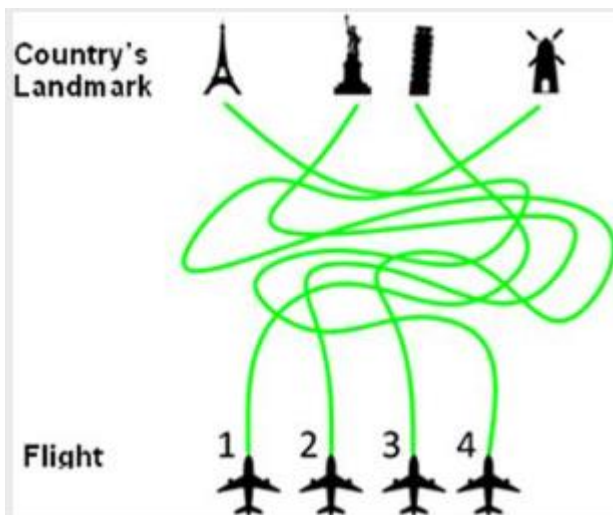
- a. the four wheels of an automobile
- b. Alignment of four cardinal directions
- c. Union of four Automobile manufacturers
- d. Motion of wheels in forward direction

• Correct Answer : c

## NATA 2022 SESSION 1 (MORNING)

Q.79 Choose the correct flight if you have to reach the country Netherlands.

[Marks:2]



Options :

- a. Flight 1
- b. Flight 2
- c. Flight 3
- d. Flight 4

• Correct Answer : c

Q.80 Choose the odd symbol out

[Marks:2]



Options :

- a. A
- b. B
- c. C
- d. D

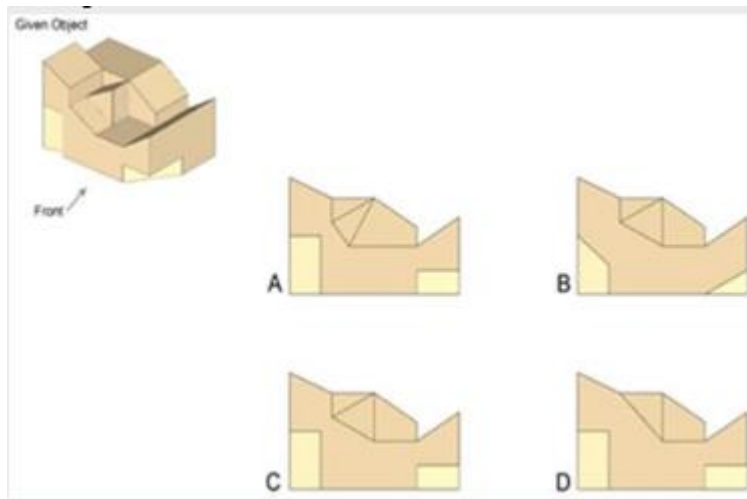
• Correct Answer : d

Q.81 Identify the correct side (front) view for the given 3D volume from the options given below

[Marks:2]



## NATA 2022 SESSION 1 (MORNING)

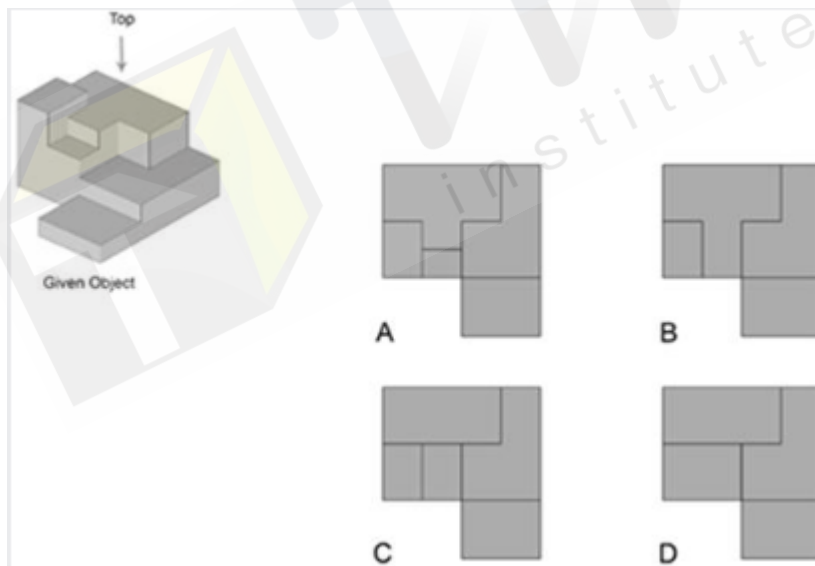


Options :

- a. A
- b. B
- c. C
- d. D

• Correct Answer : c

Q.82 identify the correct **Top view** for the given 3D object from the view point [Marks:2]  
of the arrow indicated



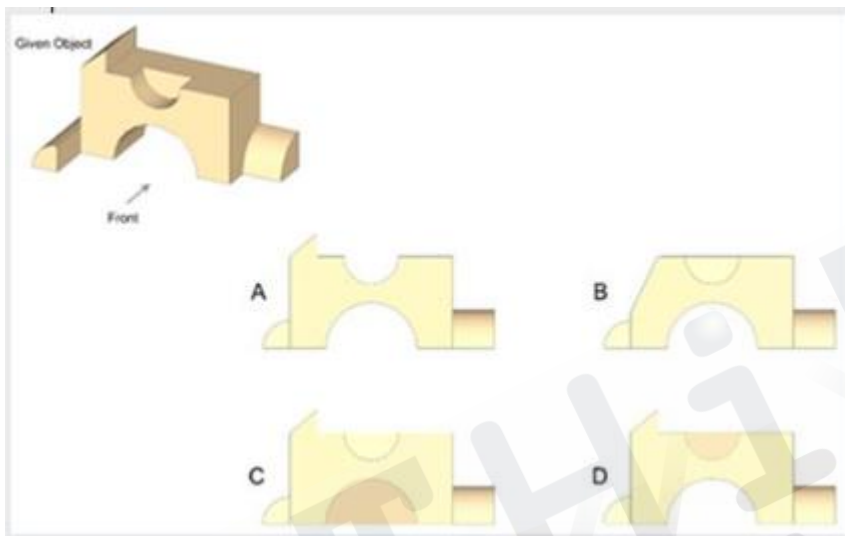
## NATA 2022 SESSION 1 (MORNING)

Options :

- a. A
- b. B
- c. C
- d. D

• Correct Answer : a

Q.83 Identify the correct side elevation view for the given 3D object from the [Marks:2]  
view point of the arrow indicated.

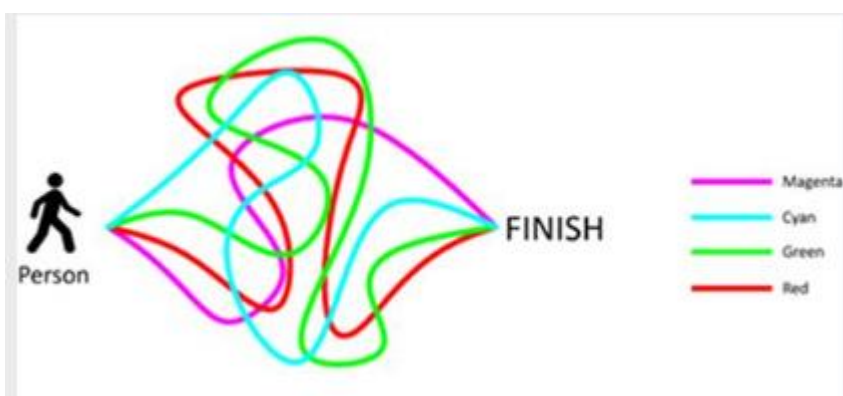


Options :

- a. A
- b. B
- c. C
- d. D

• Correct Answer : \*bonus(If Attempted)\*

Q.84 Choose the color of the path for which the person has to reach the [Marks:2]  
FINISH in the shortest amount of time.



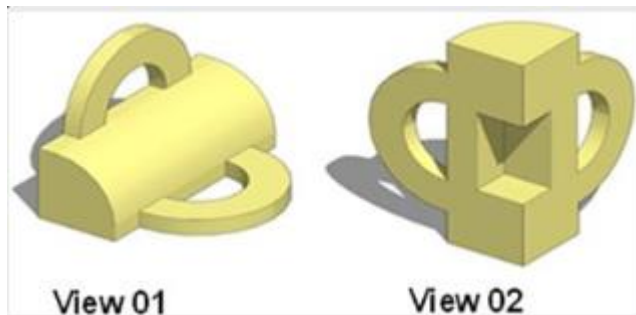
# NATA 2022 SESSION 1 (MORNING)

Options :

- a. Magenta path
- b. Cyan path
- c. Green path
- d. Red path

• Correct Answer : a

Q.85 For the given object below, how many numbers of surfaces make the 3D object? [Marks:2]



Options :

- a. 12 surfaces
- b. 15 surfaces
- c. 16 surfaces
- d. 21 surfaces

• Correct Answer : b

Q.86 Which out of the following color models specifies green as a basic color? [Marks:2]

Options :

- a. Munsell Color System
- b. Natural Color System
- c. RGB
- d. CMYK

• Correct Answer : a

# NATA 2022 SESSION 1 (MORNING)

Q.87 The sequence of colors in the present day Google Logo is

[Marks:2]

Options :

- a. Blue, Red Yellow, Blue, Green , Red
- b. Blue, Yellow, Red, Blue, Green, Red
- c. Blue, Red, Yellow, Green, Red, Blue
- d. Blue, Yellow, Red, Green, Blue, Red

• Correct Answer : a

Q.88 Why is the ocean blue in color?

[Marks:2]

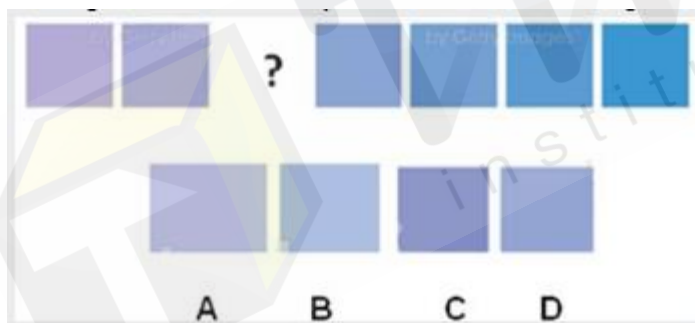
Options :

- a. They reflect the sky blue color
- b. It is because of the color of the algae in water
- c. Absorption of the red, orange and yellow color of the spectrum and reflecting back of only the blue color
- d. The water body reflects the plant life at the bottom of it

• Correct Answer : c

Q.89 In the color chart given below one of the hues is missing. From among the choices given below identify the one which is the right fit.

[Marks:2]



Options :

- a. A
- b. B
- c. C
- d. D

• Correct Answer : d

# NATA 2022 SESSION 1 (MORNING)

Q.90 Which of the following architects used color in his projects to create drama, [Marks:2]  
interest and character?

Options :

- a. Charles Correa
- b. B V Doshi
- c. Achyut Kanvinde
- d. Bimal Patel

• Correct Answer : a

Q.91 Identify the **four** most important visual principles in the given two dimensional black and white composition [Marks:2]  
(Marks will be awarded only if all answers are right)



Options :

- a. Contrast
- b. Focal point
- c. Symmetry
- d. Vibration
- e. Depth
- f. Convergence
- g. Direction
- h. Parallelism
- i. Pattern

• Correct Answer : a, b, f, g,

Q.92 Identify the **four** most important visual principles/ elements in the given black and white photograph given below. [Marks:2]  
(Marks will be awarded only if all answers are right)

## NATA 2022 SESSION 1 (MORNING)



Options :

- a. Two-point perspective
- b. Focal point
- c. Asymmetric
- d. One point perspective
- e. Divergence
- f. Pattern
- g. Rhythm
- h. Parallelism
- i. Fluidity

• Correct Answer : a, b, f, g, h

**ANSWER KEY CHANGES**

Q.93 Identify the four most important visual elements/ principles in the colour composition given below.  
(Marks will be awarded only if all answers are right)

[Marks:2]



# NATA 2022 SESSION 1 (MORNING)

Options :

- a. Highlight
- b. Depth
- c. Pattern
- d. Grid
- e. Convergence
- f. Contrast
- g. Symmetry
- h. Figure ground
- i. Distortion

• Correct Answer : a, c, d, f

Q.94 Which era does the Image given below symbolize?

[Marks:1]



Options :

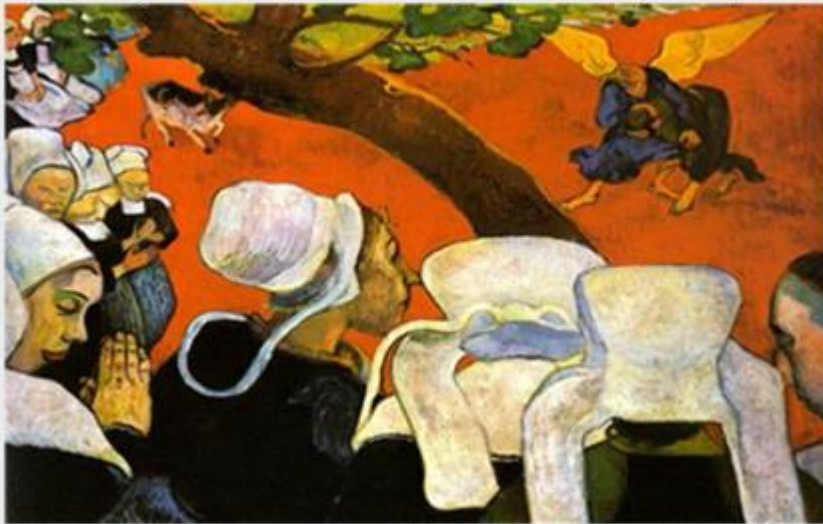
- a. Ancient Egyptian
- b. Ancient Greek
- c. Babylonia
- d. Indus Valley

• Correct Answer : a

Q.95 French post-Impressionist artist **Paul Gauguin** was an important figure in the **Symbolist art movement** of the early 1900s. His use of bold colors and stark contrasts in his paintings set him apart from his contemporaries, helping to pave the way for the Primitivism art movement. The painting depicted below- **Vision after the Sermon**- used the color **red** predominantly. What does the color represent in this painting? [Marks:1]



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“Vision After The Sermon” by PAUL GAUGUIN

Options :

- a. Peace
- b. Anger
- c. Joy
- d. Love

• Correct Answer : b

Q.96 Color can change the sense of amplitude and size of a room. What spatial effect [Marks:1]  
does it have in the images given below:  
(Marks will be given only if all answers are right)



## NATA 2022 SESSION 1 (MORNING)

Options :

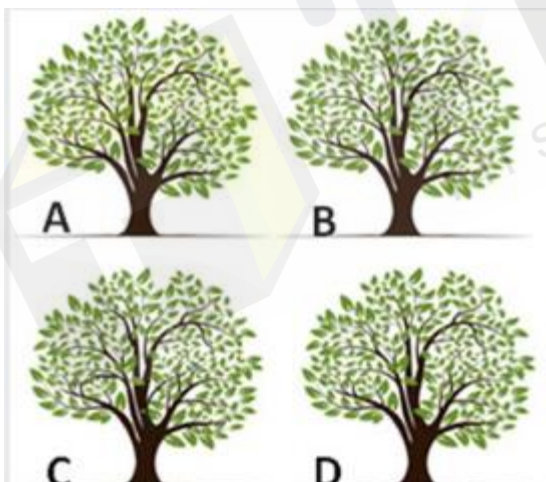


- p. Narrows
- q. Enlarges
- r. Highlights
- s. Shortens

• Correct Answer : a-s,b-r,c-q,d-p

Q.97 Identify the dissimilar image

[Marks:2]



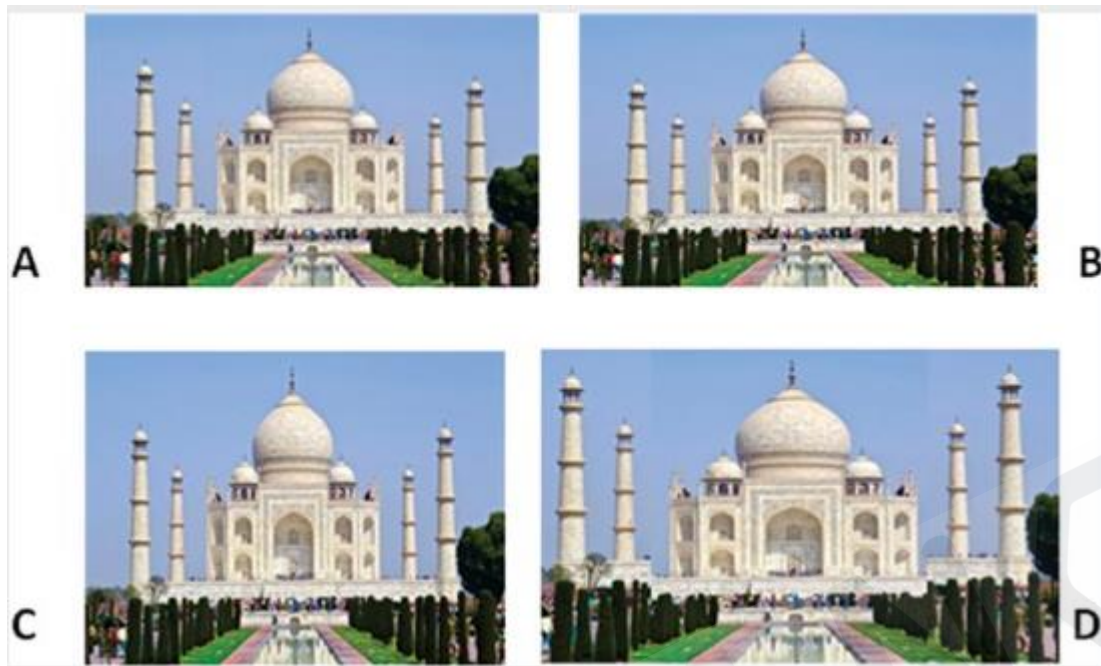
Options :

- a. A
- b. B
- c. C
- d. D

• Correct Answer : c

## NATA 2022 SESSION 1 (MORNING)

Q.98 Only one of the four images given below is true, correct and undistorted. Identify the image



Options :

- a. A
- b. B
- c. C
- d. D

• Correct Answer : b

Q.99 The image given below is created by repeating a logo/ brand identity. Identify its category

[Marks:2]



Options :

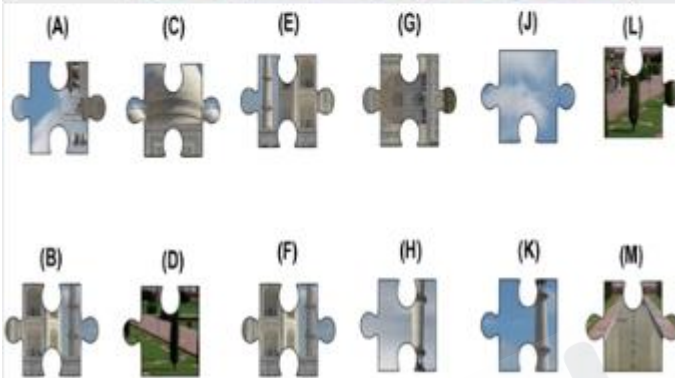
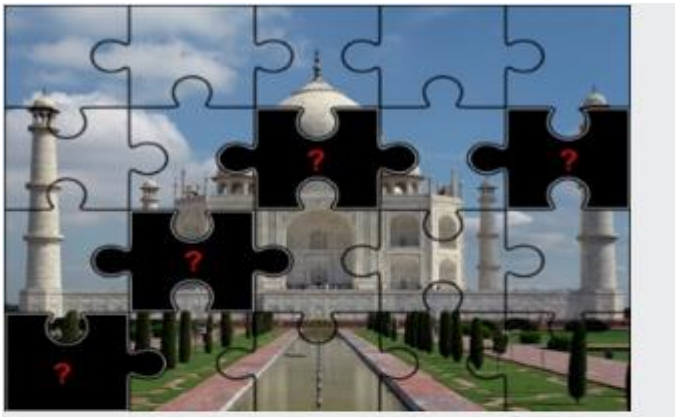
- a. Bank
- b. Public Sector organization
- c. A well-known technical institute
- d. A popular household product

• Correct Answer : b

# NATA 2022 SESSION 1 (MORNING)

Q.100 Find the missing pieces which will complete the puzzle.

[Marks:2]

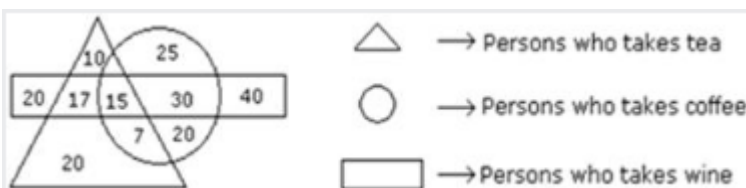


Options :

- a. A
- b. C
- c. E
- d. G
- e. J
- f. L
- g. B
- h. D
- i. F
- j. H
- k. K
- l. M

• Correct Answer : b,c,f,k

Q.101 Study the diagram given below and identify how many persons take tea and wine but not coffee? [Marks:2]



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Options :

- a. 20
- b. 17
- c. 25
- d. 15

• Correct Answer : b

Q.102 You go north, turn right, then right again and then go to the left. In which direction are you now? [Marks:2]

Options :

- a. North
- b. South
- c. East
- d. West

• Correct Answer : c

Q.103 Pointing to a photograph, a man said, "I have no brother or sister but that man's father is my father's son". Whose photograph was it? [Marks:2]

Options :

- a. His own
- b. His son's
- c. His father's
- d. His nephew's

• Correct Answer : a

**ANSWER KEY CHANGED**

Q.104 A man is facing south. He turns 135° in the anticlockwise direction and then 180° in the clockwise direction. Which direction is he facing now? [Marks:2]

Options :

- a. North East
- b. North west
- c. South east
- d. South west

• Correct Answer : c

**ANSWER KEY CHANGES**

# NATA 2022 SESSION 1 (MORNING)

Q.105 If A = 26, B = 25 and so on. SUN = 27, then how will you code CAT [Marks:2]

Options :

- a. 24
- b. 27
- c. 57
- d. 58

• Correct Answer : c

Q.106 You are anxiously waiting for someone at home. You \_\_\_\_\_. [Marks:2]

Options :

- a. don't give it a thought
- b. are just too busy at your work
- c. run out the minute you hear a car stop outside
- d. call up many times to find out why it's taking so long

• Correct Answer : c,d

Q.107 How many numbers from 11 to 50 are there which are exactly divisible by 7 but not divisible by 3? [Marks:2]

Options :

- a. 2
- b. 4
- c. 5
- d. 6

• Correct Answer : b

Q.108 How many numbers from 11 to 50 are there which are exactly divisible by 7 but not divisible by 3? [Marks:2]

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- p. Iceland
- q. Australia
- r. Norway
- s. New Zealand

• Correct Answer : \*bonus(if Attempted)\*

Q.109 How much is a Baker's dozen?

[Marks:2]

Options :

- a. 24
- b. 12
- c. 11
- d. 13

• Correct Answer : d

Q.110 Match the architect and the building he designed:  
(Marks will be awarded only if all answers are right)

[Marks:2]

Options :

- |                 |   |
|-----------------|---|
| a. Le Corbusier | p. Center for Development Studies, Thiruvananthapuram |
| b. Raj Rewal    | q. Redevelopment of Central Vista, N Delhi            |
| c. Laurie Baker | r. Hall of Nations, Pragathi Maidan, N Delhi          |
| d. Bimal Patel  | s. Mill Owners Association building, Ahmedabad        |

• Correct Answer : a-s,b-r,c-p,d-q



# NATA 2022 SESSION 1 (MORNING)

Q.111 Identify four architectural components in the image given below:  
(Marks will be awarded only if all answers are right)

[Marks:2]

Options :

- a. Clerestory
- b. Pergola
- c. Stone masonry
- d. Landscape
- e. Deck
- f. Glass Panels
- g. Paneled door
- h. Cove lighting
- i. Parapet

• Correct Answer : b,d,e,f

Q.112 Identify four situations from the following listed that depict Newton's Law of Inertia (First Law)  
(Marks will be awarded only if all answers are right)

[Marks:2]

Options :

- a. Car turns left and you slide to the right
- b. A loaded truck versus an unloaded truck
- c. Two cars colliding head on
- d. The magician pulls a tablecloth out from under a pile of dishes
- e. Accelerating and decelerating a car
- f. Gun being fired
- g. When riding a horse, the horse suddenly stops and you fly over its head
- h. Car suddenly stops and you strain against the seat belt
- i. Sprinklers rotating

• Correct Answer : a, d, g, h

Q.113 Identify the four most appropriate architectural components/ volumes that you find in the image of the Amdavad ni Gufa designed by Ar. B V Doshi

[Marks:2]

(Marks will be awarded only if all answers are right)

## NATA 2022 SESSION 1 (MORNING)



Options :

- a. Sunken court
- b. Geometric patterns
- c. Ribbed domes
- d. Truncated cones
- e. Chimneys
- f. Skylights
- g. Curved columns
- h. Paving
- i. Stone walls

• Correct Answer : a, b, c, d, h

Q.114 Identify four architectural components and effects that you find in the interior image of Kala Academy, Goa designed by Ar. Charles Correa. (Marks will be awarded only if all answers are right)

[Marks:2]



# NATA 2022 SESSION 1 (MORNING)

Options :

- a. Warm colors
- b. Steel columns
- c. Informal seating
- d. Illusions
- e. Water body
- f. Grid slab
- g. Skylight
- h. Murals
- i. Handrails

• Correct Answer : a, c, d, f, h

Q.115 Identify the four most appropriate architectural components that you find in the image of the Primary Health Center, Dharmapuri an award winning project designed by the architectural firm Flying Elephant, Bangalore (Marks will be awarded only if all answers are right) [Marks:2]



Options :

- a. Hipped roof
- b. Rain water gutter
- c. Tiled roof
- d. Steel frames
- e. Deep overhang
- f. Thatch shading panels
- g. Fibre glass roof
- h. Stone masonry
- i. Staircase

• Correct Answer : b, d, e, f, h

# NATA 2022 SESSION 1 (MORNING)

Paragraph:

Carefully observe the given image of a design board with 8 panels using different colors, text and graphics. You can view the image for 30 seconds after which it will disappear. You will then answer two questions based on the image.

**Caution:** The image once viewed cannot be viewed again.



Q.116 How many panels have words written on them?

[Marks:3]

- Correct Answer : 2

Q.117 How many panels have pink as the background color?

[Marks:3]

- Correct Answer : 1

Paragraph:

Carefully observe the given image depicting 4 faces using plates as the base and face features formed with many different objects. You can view the image for 30 seconds after which it will disappear. You will then answer **two questions** based on the image.

**Caution:** The image once viewed cannot be viewed again.



# NATA 2022 SESSION 1 (MORNING)

Q.118 How many scissors were there in the image?

[Marks:3]

- Correct Answer : 2

Q.119 Which plate depicted the face of an older man?

[Marks:3]

Options :

- a. A
- b. B
- c. C
- d. D

- Correct Answer : c

Paragraph:

Carefully observe the given image set depicting colorful logo designs for the city of Melbourne. While some logos are 3D others are 2D. You can view the image for 30 seconds after which it will disappear. You will then answer **two** questions based on the image.

**Caution:** The image once viewed cannot be viewed again.



Q.120 How many times did the logo with the said colour combination appear in the given set? [Marks:3]



- Correct Answer : 5



# NATA 2022 SESSION 1 (MORNING)

Q.121 How many times did a 2D (2 Dimensional) logo repeat in the given set? [Marks:3]

- Correct Answer : 3

Paragraph:

Carefully observe the given image set depicting bears wearing colorful clothes and accessories such as shoes, headgear and coats, etc. You can view the image for 30 seconds after which it will disappear. You will then answer **two questions** based on the image.

**Caution:** The image once viewed cannot be viewed again.



Q.122 How many bears are wearing headgear?

[Marks:3]

- Correct Answer : 5

Q.123 How many bears are wearing an item in the color red?

[Marks:3]

Options :

- a. 10
- b. 8
- c. 5
- d. 6

- Correct Answer : b

Paragraph:

Carefully observe the given image depicting a kid's study corner with wall hangings above the table and objects on the table and around as well. You can view the image for 30 seconds after which it will disappear.

You will then answer **two questions** based on the image.

**Caution:** The image once viewed cannot be viewed again.



## NATA 2022 SESSION 1 (MORNING)



Q.124 How many wall hangings are there above the study table wherein leaves [Marks:3]  
are depicted?

- Correct Answer : 3

Q.125 Which of the following animals is depicted as a wall painting? [Marks:3]

Options :

- a. Elephant
- b. Dog
- c. Zebra
- d. Giraffe

- Correct Answer : d