





NATA - JULY 07 - 2022 MORNING SESSION QUESTIONS

Q.1 Which of the following diagrams indicates the best relation between India, Haryana and World?

[Marks:1]

Options :

- a. 
- b. 
- c. 
- d. 

• Correct Answer : D

Q.2 To determine any straight line, at least **K** points are required. Then **K** is equal to

[Marks:1]

Options :

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

• Correct Answer : C

Q.3 The locus of a point equidistant from a fixed point is a

[Marks:1]

Options :

- a. Circle
- b. Parabola
- c. Straight line
- d. Ellipse

• Correct Answer : A

Q.4 The product of the square root of x with the cube root of x , is

[Marks:1]

Options :

- a. A cube root of the square root of x
- b. Sixth root of the fifth power of x
- c. Fifth root of the sixth power of x
- d. Sixth root of x

• Correct Answer : B

Q.5 How many feet are in a mile?

[Marks:1]

Options :

- a. 5820
- b. 5280
- c. 5080
- d. 5828

• Correct Answer : B

Q.6 Excluding stoppages, the speed of a bus is 54 kmph and including stoppages, it is 45 kmph. For how many minutes does the bus stop per hour?
(Answer to be provided in minutes)

[Marks:1]

• Correct Answer : 10

Q.7 We've got whole milk (with 4% fat) and low-fat milk (with 1% fat). [Marks:1]
How much low-fat milk should be added to 50 litres of whole milk to get milk with 3% fat? (Answer to be provided in litres)

• Correct Answer : 25

Q.8 What is the degree of the polynomial, $x^4 - x^2 + 2$? [Marks:1]

• Correct Answer : 4

Q.9 If Rs. 782 be divided into three parts, proportional to $\frac{1}{2} : \frac{2}{3} : \frac{3}{4}$, then [Marks:1]
what is the first part?

• Correct Answer : 204

Q.10 14 persons can complete a work in 16 days. 8 persons started the work; 12 days [Marks:1]
after they started the work, 8 more persons joined them. How many days will they take to complete the remaining work?

• Correct Answer : 8

Q.11 The commonly used safety fuse wire is made of which of the following materials? [Marks:1]

Options :

- a. Copper
- b. Lead
- c. Nickel
- d. Alloy of tin and lead

• Correct Answer : D

Q.12 When you float your back on water, what is your weight? [Marks:1]

Q.12 When you float your back on water, what is your weight?

[Marks:1]

Options :

- a. Zero
- b. Equal to your normal weight
- c. Half your normal weight
- d. Greater than the weight of water displaced by you

• Correct Answer : A

Q.13 A wound watch spring has

[Marks:1]

Options :

- a. Mechanical energy
- b. Kinetic energy
- c. Potential energy
- d. Electric energy

• Correct Answer : C

Q.14 A unitless quantity

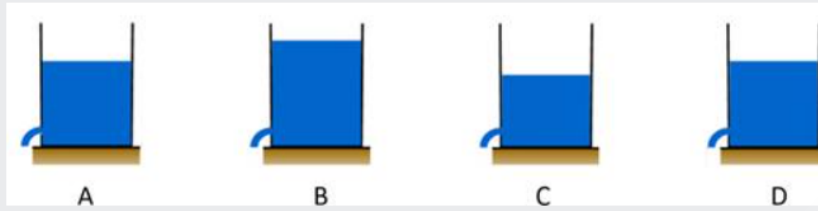
[Marks:1]

Options :

- a. Does not exist
- b. May have a non-zero dimension
- c. Never has non- zero dimension
- d. Always has a non-zero dimension

• Correct Answer : C

Q.15 Water is placed inside four containers. Each container has a hole near the bottom. [Marks:1]
From which container is the water coming out the fastest



Options :

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

• Correct Answer : B

Q.16 Calculate the work done by a force of 30 N in lifting a load of 2 kg to a height of 10m ($g = 10\text{ms}^{-2}$) [Marks:1]
(Answer to be provided in Joule)

• Correct Answer : 300

Q.17 Find the maximum velocity for the overturn of a car moving on a circular track of radius 100m. The co-efficient of friction between the road and tyre is 0.2 [Marks:1]
(Provide answer in m / s)

• Correct Answer : 14

Q.18 A circle of maximum possible size is cut from a square sheet. Subsequently, a square of maximum possible size is cut from the resultant circle. What will be area of the final square? [Marks:1]

Options :

- a. 75% of the of the original square
- b. 50% of the size of the original square
- c. 75% of the size of the circle
- d. 25% of the size of the original square

• Correct Answer : B

Q.19 Angle formed in minor segment of a circle, is

[Marks:1]

Options :

- a. Acute
- b. Obtuse
- c. Right angle
- d. Zero

• Correct Answer : B

Q.20 Which of the following regular polygons do not tessellate?

[Marks:1]

Options :

- a. Triangle
- b. Square
- c. Pentagon
- d. Hexagon

• Correct Answer : C

Q.21 The length and width of a rectangle is in the ratio 3:5. If its perimeter is 48 cm, find its length and width.

[Marks:1]

Options :

- a. 9, 15
- b. 12, 20
- c. 15, 25
- d. 18, 30

• Correct Answer : A

Q.22 The greatest chord of a circle is called its

[Marks:1]

Options :

- a. Radius
- b. Secant
- c. Diameter
- d. Arc

• Correct Answer : C

Q.23 The given figure depicts an archery target marked with its five scoring areas from the center outwards as Gold, Red, Blue, Black and White. The diameter of the region representing gold score is 21 cm and each of the other bands is 10.5 cm wide. Find the area of White scoring region. ($\pi = 22/7$)
(Answer to be provided in sq cm)

[Marks:1]



• Correct Answer : 3118.5

Q.24 The wheels of a car are of diameter 80 cm each. How many complete revolutions does each wheel make in 10 minutes when the car is traveling at a speed of 66 km/hour?

[Marks:1]

• Correct Answer : 4375

Q.25 The base area of a cylinder is 154 cm^2 and height is 5 cm. Find the volume of a cylinder.
(Answer to be provided in cm^3)

[Marks:1]

• Correct Answer : 770

Q.26 Find the mis-spelt word.

[Marks:1]

Options :

- a. accomodation
- b. accomplishment
- c. accompaniment
- d. accomplice

• Correct Answer : A

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

[Marks:1]

"The word is *no longer in use*".

Options :

- a. desolate
- b. antique
- c. absolute
- d. Obsolete

• Correct Answer : D

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

[Marks:1]

Options :

- a. Dismiss
- b. Confess
- c. Quantity
- d. Ticket

• Correct Answer : B

Q.29 Choose from the following, the correct **antonym** of the given word "Obscene" [Marks:1]

Options :

- a. Indecent
- b. Offensive
- c. Decent
- d. Obsolete

• Correct Answer : C

Q.30 Choose the **most appropriate word** that best fits in the blank: [Marks:1]

"The car was damaged beyond repair in the _____ accident".

Options :

- a. outrageous
- b. ghastly
- c. nasty
- d. heinous

• Correct Answer : B

Paragraph:

Read carefully the passage given below. You will have to answer four questions based on the text of the passage.

"Who doesn't know how to cook rice? Cooking rice hardly takes time." said my father. So, I challenged myself. I switched from news to YouTube and typed, "How to cook rice?" I took one and a half cups of rice. Since I didn't have access to a rice cooker, I put the rice in a big pot. Firstly, the rice has to be washed to get rid of dust and starch. I thought I won't be able to drain the rice and that it will fall out of the pot. I observed the chef as I swirled the rice around and used my dexterous hands to drain it, not once, not twice, but three times. I looked down at the sink and saw less than 50 grains that made their way out of the pot. Suffice to say, I was up to the mark.

The video stated that the key to perfect rice is equal amounts of rice and water. I have heard that professionals don't need to measure everything; they just know what the right amount is. But as this was my first time in the kitchen, I decided to experiment by not measuring the water needed for boiling the rice

After what seemed like 10 minutes, went in to give it a good stir. To my surprise, some of the rice got stuck to the pot. I quickly turned the stove off.

Finally, when the time came to taste my creation, it wasn't bad at all. The rice had the desired consistency. The experience was fairly rewarding and memorable. It taught me a new sense of respect for those who cook food on a regular basis at home or engage in gourmet creations professionally.

Q.31 Father's question to the narrator, about knowing how to cook rice, was intended to [Marks:1]

Options :

- a. Criticize the narrator's lack of abilities.
- b. Make the process sound simple.
- c. Encourage the narrator to take up cooking
- d. Showcase his own expertise in cooking rice

• Correct Answer : B

Q.32 "I switched from news to YouTube ..." Pick the option in which the meaning of 'switch(ed)' is NOT the same as it is in the passage. [Marks:1]

Options :

- a. He switched on the radio to listen to the news while having dinner.
- b. Forget these diet supplements and switch to yoga, if you want a true sense of well-being."
- c. Mom switched to reading fiction recently because she was bored with cookbooks
- d. The company will switch the trucks to other routes to bring down city pollution.

• Correct Answer : A

Q.33 The narrator says that he has dexterous hands. He would have had a problem had it been the opposite. NOT BEING dexterous means, being [Marks:1]

Options :

- a. Uncomfortable
- b. Clumsy
- c. Unclear
- d. Clueless

• Correct Answer : B

Q.34 Which is the option that lists the correct sequence of the process?

[Marks:1]

1. Use water to wash the rice.
2. Repeat the process three times.
3. Drain the water off.
4. Put rice in a utensil.
5. Swirl the water in and around the rice.

Options :

- a. 4,2,1,3,5
- b. 1,3,2,5,4
- c. 4,1,5,3,2
- d. 5,1,2,4,3

• Correct Answer : C

Paragraph:

Read carefully the passage given below. You will have to answer four questions based on the text of the passage.

One of the most significant architectural developments in human history was the 'Arch'. An arch compresses the tension caused by weight downwards and outwards, resulting in a stronger structure with large open gaps.

The key feature of an arch is its curve, which prevents it from collapsing under its own weight. Arches are found in many different shapes and sizes but they all work on the same basic principle. Basically, there are two types of arches: semi-circular (round) and pointed.

(A) The **semi-circular arches** were extensively used by the Romans not only to construct buildings such as the Colosseum and Pantheon but also used them in water management structures such as aqueducts and bridges.

(B) The round arch was replaced by **pointed arches** and enabled the construction of lofty cathedrals all over Europe during medieval times. This architecture was referred to as Gothic.

The arch was a fixture in Islamic architecture all over the world and is evident both on facades and in interiors of buildings. Islamic arches are categorized into four main styles: pointed, ogee, horseshoe and multifoil

(C) The characteristic arch type of Moroccan and western Islamic styles is the so-called **Moorish or horseshoe arch** an arch with a rounded top that bends ever so lightly inward at the side.

(D) One of the most decorative arch forms is the **ogee arch**. Ogee is a decorative line formed by two connected curves and forming an S-shaped curve. When combined in an arch they meet at a point and because of its decorative nature, found application across many styles of architecture.

From the given set of images identify which category of arch form they fall into

Q.35

[Marks:1]



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

Q.37

[Marks:1]



Options :

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

• Correct Answer : C



Q.38

[Marks:1]



Options :

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

• Correct Answer : B

Paragraph:

Read carefully the passage given below. You will have to answer four questions based on the text of the passage.

Thomas Elva Edison was born in America in the year 1847. He began his life as a newspaper seller in railway trains. One day he saved a small child from being run over by a train. The child's father was very grateful to him. This Station Master taught young Edison how to work on the electric telegraph. Edison was so clever that he soon found ways of improving the telegraph system. That was one of over a thousand inventions that he had made during his lifetime. He also made one of the first telephones. Many of his inventions had to do with electricity and its uses.

Q.39 What was the first scientific achievement of Edison?

[Marks:1]

Options :

- a. Telephone
- b. Tube light
- c. Dynamite
- d. Telegraph

• Correct Answer : D

Q.40 Why was the child's father grateful to Edison?

[Marks:1]

Options :

- a. Because he saved his life from falling down
- b. Because he had saved the life of his son
- c. Because he had rescued his life by admitting him to a hospital
- d. Because he protected the life of the child by donating money

• Correct Answer : B

Q.41 What was the profession of the child's father?

[Marks:1]

Options :

- a. General Manager
- b. Scientist
- c. Engineer
- d. Station master

• Correct Answer : D

Q.42 What did the child's father teach Edison?

[Marks:1]

Options :

- a. How to work on the electric telegraph
- b. How to manage office jobs
- c. How to improve on the telephone
- d. How to drive trams

• Correct Answer : A

Paragraph:

Read carefully the passage given below. You will have to answer four questions based on the text of the passage.

In the study of the arts and sciences, architecture ranks highly as one of the most fundamental and practical subjects based on human culture. Architecture is the living proof of the persistence of man's ideas with the passage of time.

Back in prehistoric times, early man lived in caves. Many years later, simple huts were erected to replace the caves as places of dwelling. The earliest known huts were found in Russia and were made from mammoth bones.

As more time passed, man learnt to build stronger and bigger buildings. These served as temples for worship or as tombs for important people. Between the years 2700 B.C and 2200 B.C., the Egyptians built massive stone pyramids which are still standing today.

Wood was a popular building material with the Chinese and the Japanese. Wooden Japanese houses still retain the same design as those constructed centuries ago. Rooms in such houses are divided by paper screens.

Greek architecture from the period 450 B.C to 400 B.C has greatly influenced western designs. Ancient Greek buildings were well-known for their beauty and fine proportions. the Greeks were fond of using columns to support the roofs of their buildings.

During the fourth century, much of Europe was under siege from her enemies. Kings and noblemen resorted to building strong castles to protect themselves. These castles had thick walls, high towers and small windows to discourage invaders. Another feature was the inclusion of a moat around the castle. Access to the castle was only via the drawbridge which would be lowered and raised accordingly to admit traffic in and out of the castle. As more and more European countries became stable politically, Europe shifted towards a style that highlighted grace and beauty instead of protection.

It was not until the turn of the twentieth century that architects realized the appearance of a building must be closely related to its function. New techniques and new materials were thus used to create more interesting designs.

Q.43 What was early man's first habitat?

[Marks:1]

Options :

- a. Huts of grass
- b. Caves
- c. Dwellings with mammoth bones
- d. Tree-houses

• Correct Answer : B

Q.44 What was the primary function of the moat built around castles in Europe?

[Marks:1]

Options :

- a. To breed fish
- b. Cool the environment
- c. discourage invaders
- d. provide vehicular access

• Correct Answer : C

Q.45 When did the appearance of a building come to be more closely related to its function?

[Marks:1]

Options :

- a. when countries became politically stable
- b. when there was threat of a siege
- c. after World War II
- d. at the turn of the 20th century

• Correct Answer : D

Q.46 Which architecture was known for its beauty and fine proportions?

[Marks:1]

Options :

- a. Greek
- b. Indian
- c. Chinese
- d. Japanese

• Correct Answer : A

Paragraph:

Read carefully the passage given below. You will have to answer four questions based on the text of the passage.

Humans have created artwork inspired by nature for thousands of years. From the ancient cave paintings created in the stone age, to more modern pieces of art, the natural world has inspired paintings, music and the written word throughout human existence.

Italian composer Antonio Vivaldi created a piece of classical music called 'The Four Seasons'. It is split up into different sections and each section tries to sound like the season it is named after. 'Spring' tries to sound like bird calls; 'Summer' tries to sound like swarms of wasps; 'Autumn' tries to sound like the hunters' horns; and 'Winter' tries to sound like the chattering of teeth.

Andy Goldsworthy is an award-winning environmental artist. To create his sculptures, he uses natural materials such as fallen leaves; branches; pebbles; and stone

'I wandered lonely as a Cloud' written by William Wordsworth, a British poet was also known as the 'Daffodils'. Many of Wordsworth's famous poems were inspired by nature. His poems talk about flowers blooming; different kinds of plants; birds hopping and playing; and the chirps and calls of different birds.

Robert Gillmor is an artist and illustrator. As a child, Robert spent many hours watching his grandfather creating prints in his workshop. Just like his grandfather, Robert began creating artwork inspired by birds.

Q.47 Match the following:

[Marks:1]

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

Options :

- | | |
|----------------|--|
| a. Masterpiece | p. A person who writes music |
| b. Illustrator | q. An outstanding piece of artwork |
| c. Composer | r. A person who writes poems |
| d. Poet | s. A person who draws pictures for books and magazines |

• **Correct Answer :** A-Q,B-S,C-P,D- R

Q.48 Match the following:

[Marks:1]

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

Options :

- | | |
|-------------------------------|-----------------------|
| a. Nature inspiring music | p. William Wordsworth |
| b. Nature inspiring Artwork | q. Andy Goldsworthy |
| c. Nature inspiring sculpting | r. Antonio Vivaldi |
| d. Nature inspiring poetry | s. Robert Gilmore |

• **Correct Answer :** A-R,B-S,C-Q,D-P

Q.49 Which season is depicted by the 'The sound of hunter's *horns*' in the classical piece [Marks:1]
'The Four Seasons'?

Options :

- a. Spring
- b. Summer
- c. Autumn
- d. Winter

• Correct Answer : C

Q.50 William Wordsworth wrote which of the following poems? [Marks:1]

Options :

- a. Ode to a nightingale
- b. Daffodils
- c. Tyger
- d. Every heart's a hurricane

• Correct Answer : B

Q.51 The temporary framework that is useful in construction, demolition, maintenance or repair works. is known as [Marks:2]

Options :

- a. Grouting
- b. Scaffolding
- c. Shoring
- d. Underpinning

• Correct Answer : B

Q.52 The World's longest pedestrian bridge in Portugal is a _____ Structure. [Marks:2]

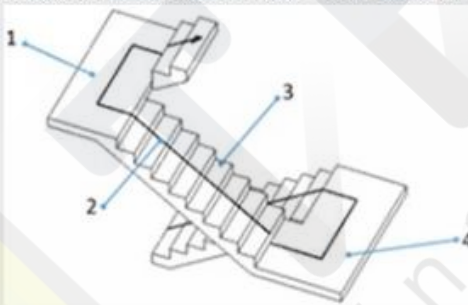


Options :

- a. Suspended
- b. Tensile
- c. Pneumatic
- d. Truss

• Correct Answer : A

Q.53 Identify from the given figure the landings of the staircase. [Marks:2]



Options :

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

• Correct Answer : C

Q.54 The marked part (with arrow) of the interior space is a _____.

[Marks:2]



Options :

- a. Storage shelf
- b. Light shelf
- c. Sunshade
- d. Loft

• Correct Answer : B

Q.55 The structure projected out from the building is which of the following?

[Marks:2]



Options :

- a. a cantilevered balcony
- b. a cantilevered sunshade
- c. service deck area
- d. Aesthetic projection

• Correct Answer : A

Q.56 Who quoted "If you never change your mind, why have one"?

[Marks:1]

Options :

- a. Abraham Lincoln
- b. Leonardo da Vinci
- c. Edward De Bono
- d. Mahatma Gandhi

• Correct Answer : C

Q.57 The members of the Rajya Sabha are elected for a term of _____

[Marks:1]

Options :

- a. Four years
- b. Determined by the legislative assembly of the state
- c. Determined by the President of India
- d. Six years

• Correct Answer : D

Q.58 Which is the earliest known source for information on the Vedic period?

[Marks:1]

Options :

- a. Rig Veda
- b. Sangam literature
- c. Jataka Katha
- d. Archaeological excavations

• Correct Answer : A

Q.59 'AMRUT' is a new scheme launched by the Government of India. What does it stand for?

[Marks:1]

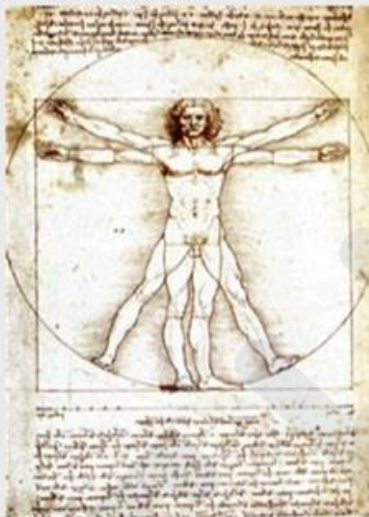
Options :

- a. Atal Mission for Rejuvenation and Urban Transformation
- b. Atal Mission for Renewal of Urban Transportation
- c. Atal Mission for Redevelopment of Transportation
- d. Atal Mission for Renewal and Urban Transformation

• Correct Answer : A

Q.60 The Vitruvian Man, the illustration of human body, inscribed in a circle and a square was drawn by

[Marks:1]



Options :

- a. Vitruvius
- b. Leonardo da Vinci
- c. Michelangelo
- d. Raphael

• Correct Answer : B

Q.61 Who has designed the Osho International Meditation Resort Campus, Pune?

[Marks:1]

Options :

- a. Charles Correa
- b. Karan Grover
- c. Hafeez Contractor
- d. Hashmukh Patel

• Correct Answer : C

Q.62 Match the cities to the characteristic feature that makes them different from each other
(Marks will be awarded only if all answers are right)

[Marks:1]

Options :

- a. Mohenjo-Daro
- b. Benares
- c. Jaipur
- d. Fatehpur Sikhri

- p. Ghats
- q. Courtyards
- r. Grid iron
- s. Mandala

• Correct Answer : A-R, B- P, C- S, D- Q

Q.63 Two people are standing back-to-back. They each walk away from each other for four feet. Then they both turn left and walk for another three feet, and then stop. Now, how many feet apart are they standing?

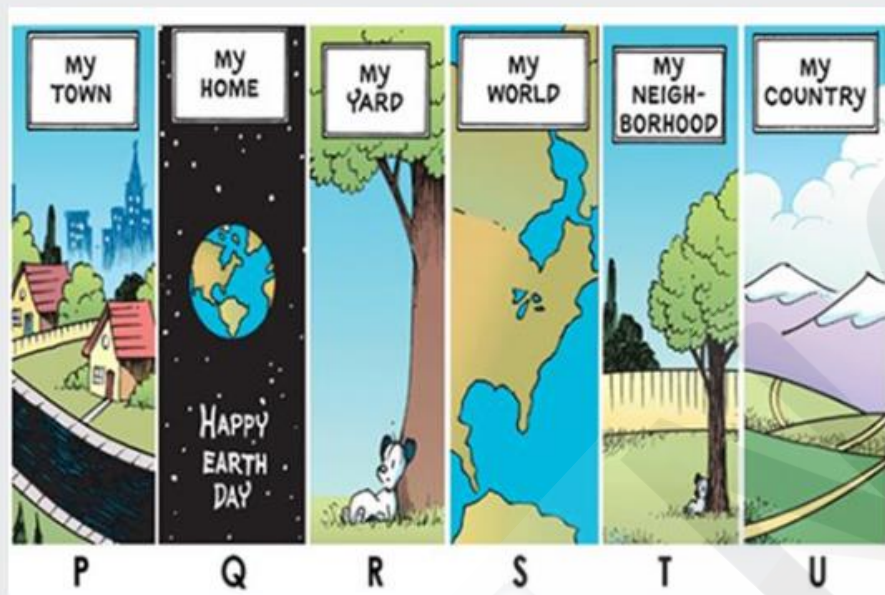
[Marks:2]

Options :

- a. Five
- b. Six
- c. Eight
- d. Ten

• Correct Answer : D

Q.64 Arrange the following comic strip such that it makes a sequential Earth Day poster. [Marks:2]

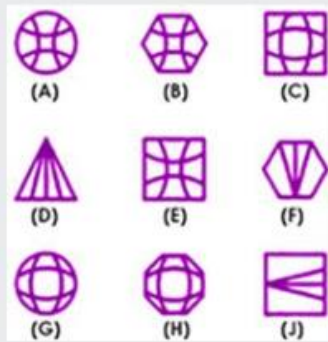


Options :

- a. $S < Q < R < P < T < U$
- b. $Q < R < T < S < U < P$
- c. $R < T < P < U < S < Q$
- d. $R < T < U < P < S < Q$

• Correct Answer : C

Q.65 From the given figures, group them into three classes using each figure only once. [Marks:2]

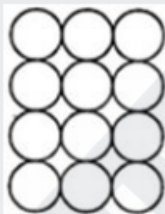


Options :

- a. A,B,E ; C,G,H ; D,F,I
- b. A,G,B ; C,I,F ; D,E,H
- c. B,C,H ; D,F,I ; A,E,G
- d. E,F,I ; C,D,A ; B,G,H

• Correct Answer : A

Q.66 In the given figure, if all the circles are joined by horizontal and vertical lines at the center, then find the number of squares that can be formed by joining the center of the circles.



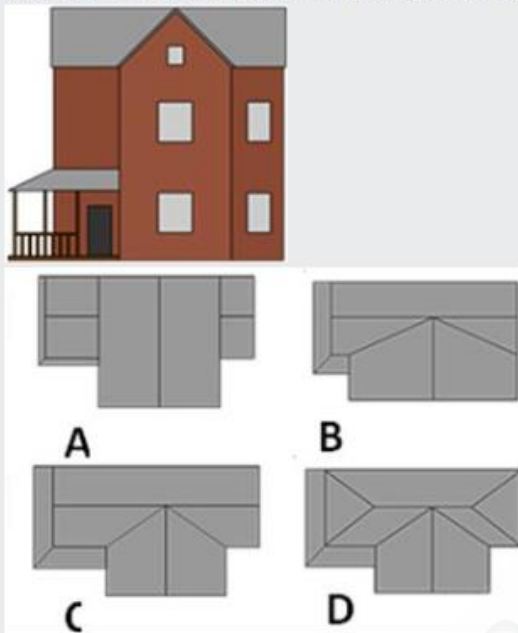
Options :

- a. 6
- b. 7
- c. 8
- d. 9

• Correct Answer : C

Q.67 Which option depicts the roof top of the house given below?

[Marks:2]



Options :

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

• Correct Answer : C

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



Options :

- a. Complementary colors
- b. Datum
- c. Symmetry
- d. Intersections
- e. Line weight
- f. Rhythm
- g. Hierarchy
- h. Asymmetry
- i. Repetition

• Correct Answer : A, D, E, H, I

Q.69 Choose **any four most appropriate principles / elements of design** which can be commonly observed in the given image. [Marks:2]
(Marks will be awarded only if all answers are correct)



Options :

- a. Contrast
- b. Pattern
- c. Rhythm
- d. Intersection
- e. Progression
- f. Static
- g. Shape
- h. Depth
- i. Order

• Correct Answer : A, C, E, G, H

Q.70 Choose any **four most appropriate principles / elements of design** which can be commonly observed in the given image. [Marks:2]
(Marks will be awarded only if all answers are correct)



Options :

- a. Contrast
- b. Pattern
- c. Datum
- d. Intersection
- e. Focal points
- f. Static
- g. Transparency
- h. Depth
- i. Light

• Correct Answer : B, C, E, G, I

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

[Marks:2]



Options :

- a. Kailasanatha temple, Ellora
- b. Surya Kund, Modhera
- c. Sun temple, Khajuraho
- d. Brihadeeswara temple, Thanjavur

• Correct Answer : Bonus

Q.72 Choose the correct image for a Chettinad house courtyard from the images given below. [Marks:2]



A



B



C



D

Options :

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

• Correct Answer : D

Q.73 The type of Arch in the given picture is _____.

[Marks:2]



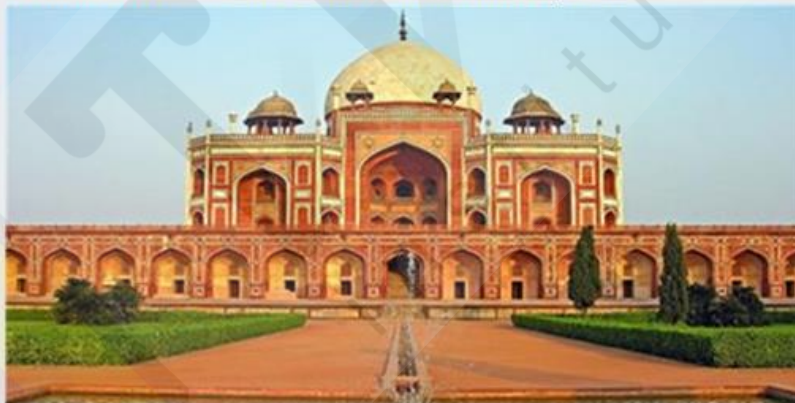
Options :

- a. Segmental Arch
- b. Semi-circular arch
- c. Flat arch
- d. Multifoil arch

• Correct Answer : D

Q.74 This monument is located in which of the following cities

[Marks:2]



Options :

- a. Agra
- b. Fatehpur Sikri
- c. N Delhi
- d. Amritsar

• Correct Answer : C

Q.75 The given image shows the Jantar Mantar at Jaipur. What is the purpose of these structures? [Marks:2]



Options :

- a. Rain water harvesting
- b. Astronomical observations
- c. Children's play
- d. Solar Energy generation

• Correct Answer : B

Q.76 Choose the logos which are the old and new design of the same brand.

[Marks:2]



Options :

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

• Correct Answer : C

Q.77 The given image symbolizes a _____ building

[Marks:2]



Options :

- a. Religious
- b. Service utility
- c. Educational
- d. Commercial

• Correct Answer : A

Q.78 Sort from the oldest to the latest logo of Apple.

[Marks:2]



Options :

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

• Correct Answer : C

Q.79 Choose the correct logo of ebay .

[Marks:2]



Options :

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

• Correct Answer : B

Q.80 The following automobile logos have been depicted with their brand name removed. Choose the odd brand out.

[Marks:2]

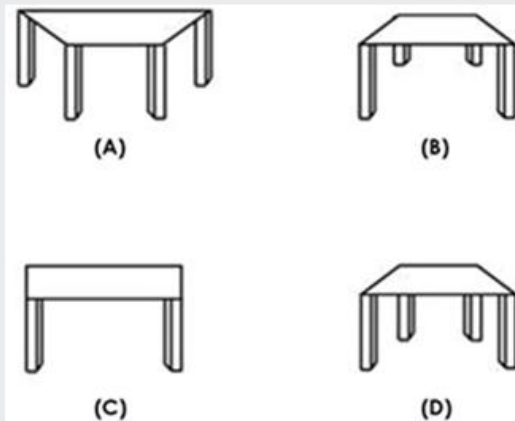


Options :

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

• Correct Answer : A

Q.81 If a table 3 feet high is placed right in front of you and you are viewing the table from 5'6" feet eye level how will the table be seen in perspective? Identify from the given choices. [Marks:2]



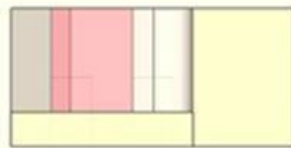
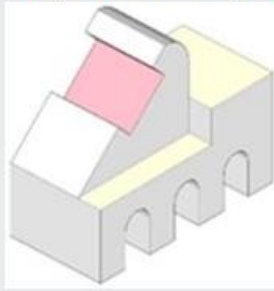
Options :

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

• Correct Answer : Bonus



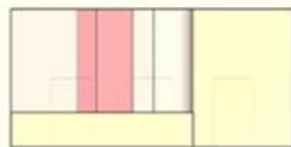
Q.82 Identify the correct **Top view** for the given 3D object from among the choices given. [Marks:2]



(A)



(B)



(C)



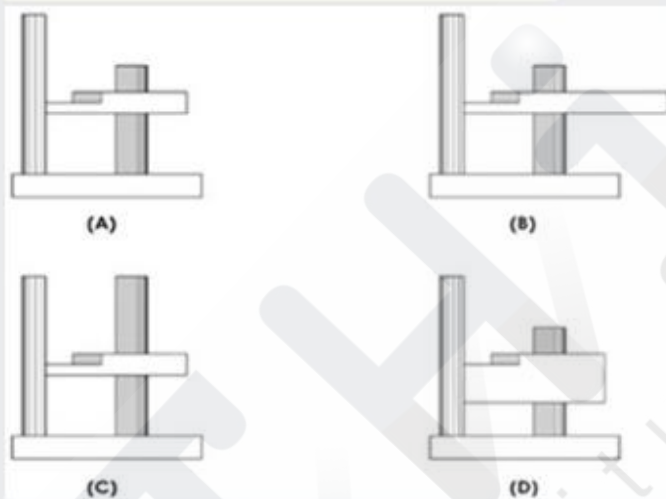
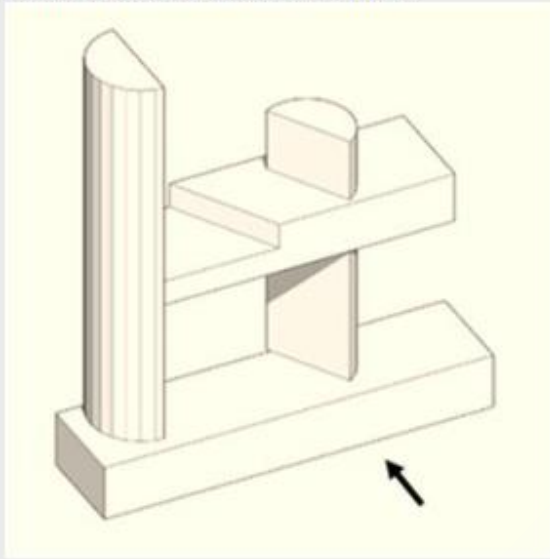
(D)

Options :

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

• Correct Answer : C

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



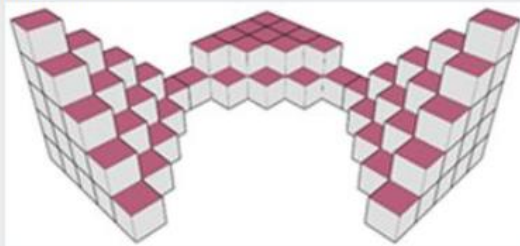
Options :

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

• Correct Answer : A

Q.84 What is the number of cubes that can be stacked up to make the given 3D composition?

[Marks:2]



Options :

- a. 95
- b. 100
- c. 85
- d. 90

• Correct Answer : A

Q.85 How many intersecting cuboids can you see in the figure given below?

[Marks:2]



Options :

- a. 9
- b. 10
- c. 11
- d. 12

• Correct Answer : C

Q.86 From the given options below choose the color which is not found in a rainbow. [Marks:2]



Options :

- a. Purple
- b. Green
- c. Orange
- d. Red

• Correct Answer : A

Q.87 In the depicted color wheel, which of the following quadrants have the WRONG COLOR sequence? [Marks:2]



Options :

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

• Correct Answer : C

Q.88 Identify the color scheme of the interior image from amongst the choices given below. [Marks:2]



Options :

- a. Complementary
- b. Analogous
- c. Triadic
- d. Monochrome

• Correct Answer : B

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 : B or D

Q.90 What are the four design principles in color?

[Marks:2]

Options :

- a. Primary colors, Secondary colors, triadic colors, Tetradic Colors
- b. Contrast, Proximity, Balance and Value
- c. Color wheel, Color harmony, Color psychology, Color coding
- d. Contrast, Shade, Value and Hue

• Correct Answer : D

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

[Marks:2]



Options :

- a. Contrast
- b. Focal point
- c. Symmetry
- d. Rhythm
- e. 3 Dimension
- f. Convergence
- g. Direction
- h. Parallelism
- i. Movement

• Correct Answer : A, B, D, E, G, H, I

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)



Options :

- a. Distortion
- b. Asymmetry
- c. Focal point
- d. Grid
- e. Convergence
- f. Pattern
- g. Repetition
- h. Parallelism
- i. Fluidity

• Correct Answer : C, D, E, F, G, H

Q.93 Identify the four most important visual elements/ principles in the colour composition given below.

[Marks:2]

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



Options :

- a. Highlight
- b. Depth
- c. Pattern
- d. Gradation
- e. Convergence
- f. Contrast
- g. Symmetry
- h. Progression
- i. Distortion

• **Correct Answer :** A, B, D, E, F, H

Q.94 From the depicted artwork identify the Warli Art of Rajasthan.

[Marks:1]



Options :

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

• Correct Answer : Bonus

Q.95 Which of the following is NOT an example of De Stijl?

[Marks:1]



Options :

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

• Correct Answer : B

Q.96 Which of the following is NOT an example of POP ART?

[Marks:1]



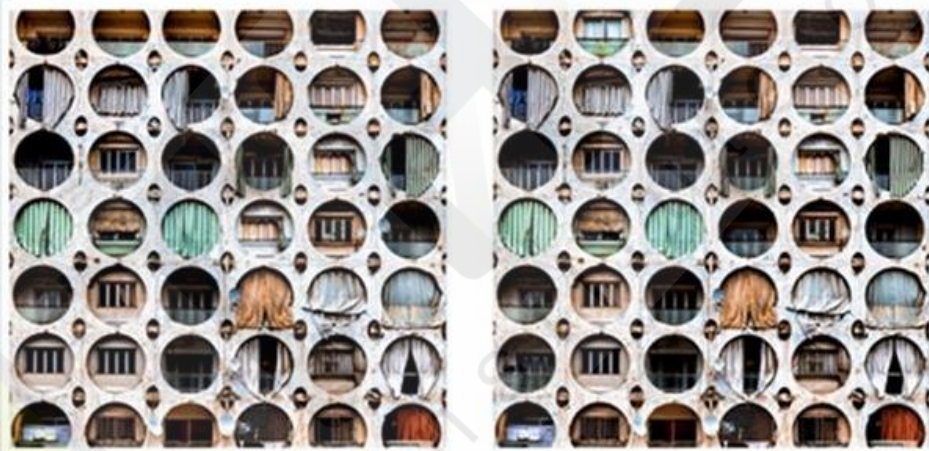
Options :

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

• Correct Answer : B

Q.97 Spot the number of differences between the two images given below.

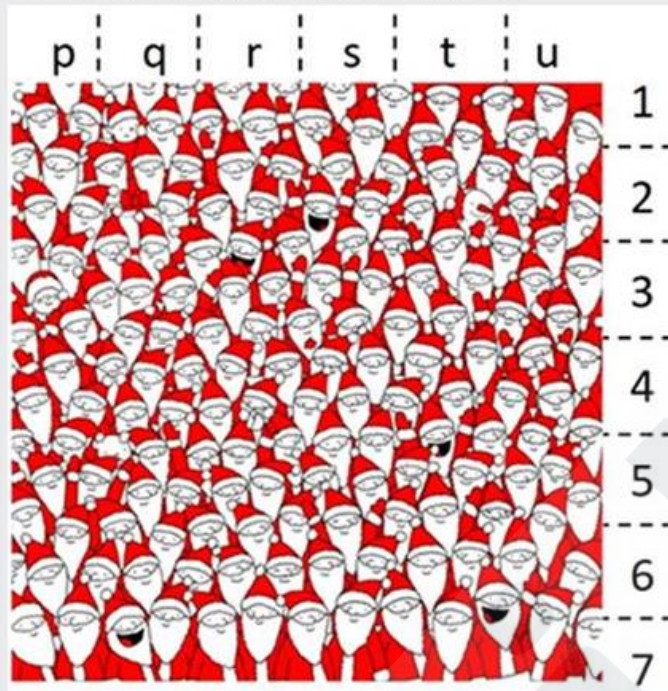
[Marks:2]



• Correct Answer : 5

Q.98 Spot the Santa Claus holding a gift in the given image
(Enter the correct answer as r-5, s-4, and so on)

[Marks:2]



- Correct Answer : q-2

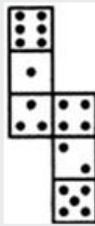
Q.99 Spot the number of differences between the two images given below.

[Marks:2]



- Correct Answer : 7

Q.100 How many dots lie opposite to the face having three dots, when the given figure is folded to form a cube? [Marks:2]



• Correct Answer : 6

Q.101 Happiness is related to sorrow in the same way as comfort is related to [Marks:2]

Options :

- a. Hardship
- b. Rest
- c. Poverty
- d. Difficulty

• Correct Answer : A

Q.102 **BANK : RIVER :: COAST : ?**

[Marks:2]

Options :

- a. FLOOD
- b. WAVES
- c. SEA
- d. BEACH

• Correct Answer : C

Q.103 Find the odd one out,

[Marks:2]

Options :

- a. SILK
- b. MILK
- c. RUBBER
- d. FUR

• Correct Answer : B

Q.104 How many times are the hands of a clock at right angles in a day?

[Marks:2]

Options :

- a. 48
- b. 24
- c. 44
- d. 22

• Correct Answer : C

Q.105 Ranjith said, "This girl is the wife of the grandson of my mother." Who is Ranjith to that girl? [Marks:2]

Options :

- a. Father
- b. Grandfather
- c. Husband
- d. Father- in-law

• Correct Answer : D

Q.106 10 frogs caught 10 insects in 10 seconds. How many frogs are required to catch 100 insects in 100 seconds? [Marks:2]

Options :

- a. 100
- b. 50
- c. 20
- d. 10

• Correct Answer : D

Q.107 In how many ways can the letters of the word 'LEADER' be arranged? [Marks:2]

Options :

- a. 72
- b. 144
- c. 360
- d. 720

• Correct Answer : C



Q.108 Identify these monumental Gateways.

[Marks:2]

Options :



- p. India Gate
- q. Arch of Constantine
- r. Arc de Triomphe
- s. Gateway of India

• Correct Answer : A-R,B-P,C-S,D-Q

Q.109 Match the following

[Marks:2]

City

Known for

Options :

- a. Surat
- b. Chennai
- c. Agra
- d. Muradabad

- p. Leather
- q. Diamonds
- r. Brassware
- s. Automobile

• Correct Answer : A-Q,B-S,C-P,D-R

Q.110 Match the faith which is associated with the listed monuments

[Marks:2]

Options :

- a. Bahai
- b. Buddhism
- c. None
- d. Sikhism

- p. Ashoka Pillar
- q. Sri Harmandir Sahib
- r. Lotus temple
- s. Matrimandir

• Correct Answer : A- R,B- P,C- S,D- Q

Q.111 The given image is a project by BIG architects at Copenhagen- Identity four most appropriate architectural terms and building components that best describe the project from the choices given below.

[Marks:2]

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



Options :

- a. Sun rooms
- b. Roof gardens
- c. Streets
- d. Garages
- e. Terraces
- f. Modular design
- g. Dwellings
- h. Co working space
- i. Lofts

• Correct Answer : A, B, E, F, G

Q.112 The given image illustrates the vernacular architecture of the Kutch region, Gujarat. Identify four most appropriate architectural terms and building components that best describe the architecture from the choices given below.
(Marks will be awarded only if all answers are right)

[Marks:2]



Options :

- a. Warli art
- b. Organic
- c. Streets
- d. Lippan art
- e. Terraces
- f. Cluster
- g. Dwellings
- h. Adobe
- i. Landscape

• Correct Answer : B, D, F, G, H



Q.113 The given image is that of the Matrimandir, Auroville an edifice of considerable significance. Identify four appropriate architectural terms and building components that best describe the building from the choices given below. (Marks will be awarded only if all answers are right) [Marks:2]



Options :

- a. Buttress
- b. Organic
- c. Enveloping structures
- d. Dome
- e. Spiritual
- f. Ellipsoid
- g. Sphere
- h. Embellishment
- i. Symbolic

• Correct Answer : C, E, D, G, H, I

Q.114 The given image is that of a courtyard in a palatial Chettinad mansion, Tamilnadu. Identify four appropriate architectural terms and building components that best describe the image from the choices given below.
(Marks will be awarded only if all answers are right)

[Marks:2]



Options :

- a. Rain water harvesting
- b. Wooden columns
- c. Grid slab
- d. Stone colonnade
- e. Corridor
- f. Grill
- g. Arcade
- h. Geometric patters
- i. Landscape

• Correct Answer : A, D, E, F, H

Q.115 The given image is a project by Norman Foster in Abu Dhabi - Masdar city.

[Marks:2]

Identify four most appropriate architectural terms and building components that best describe the image from the choices given below

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



Options :

- a. Balconies
- b. Terracotta
- c. Grid slab
- d. Curvilinear
- e. Containers
- f. Desert Architecture
- g. Arcade
- h. Jallis
- i. Light well

• Correct Answer : A, B, D, F, H

Paragraph:

Carefully observe the given image of a busy traffic junction with pedestrians and people moving around on motorbikes and bicycles. Street names and directions are also displayed in the image. 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 non-motorized vehicles (bicycles) were spotted within the picture frame? [Marks:3]

• Correct Answer : 5

Q.117 What were the names of the streets displayed on the signage? [Marks:3]

Options :

- a. Washington St and Big W12 street
- b. Little W 12 Street and Washington St
- c. Little U 14 Street and Washington St
- d. Washington W St and Little W Street

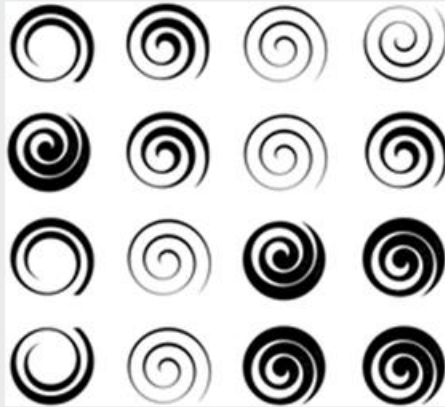
• Correct Answer : B

Paragraph:

Carefully observe the given image depicting logos with spiral designs. These spirals are both in the clockwise and anti-clockwise direction and are drawn with thin lines and thick lines.

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.118 How many spirals are in the anti-clockwise direction?

[Marks:3]

- Correct Answer : 4

Q.119 How many spirals are drawn using the thinnest lines?

[Marks:3]

- Correct Answer : 5



Paragraph:

Carefully observe the given image depicting a classroom where girls and boys are writing a test at their individual desks which have their names written on them. The walls not only have a chalkboard but an interesting display of the children's work including a calendar, clock and alphabet cards.

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 What colour was the hairband of the girl named BETH?

[Marks:3]

Options :

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

• Correct Answer : C

Q.121 What was the time displayed on the wall clock?

[Marks:3]

(Only numeric answer to be given)

• Correct Answer : 2 or 2.00

Paragraph:

Carefully observe the given image depicting a traffic junction in a neighborhood where adults and children are cycling or strolling around in an environment that is pedestrian and bicycle friendly. It may be noticed that vehicles on the crossroad are at a halt due to a 'red' signal and pedestrians are crossing the road safely at a designated crossing.

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 adults are seen walking on the pedestrian (zebra) crossing in the given image?

[Marks:3]

• Correct Answer : 4

Q.123 How many vehicles are facing you in the given picture?

[Marks:3]

Options :

- a. 3
- b. 4
- c. 0
- d. 2

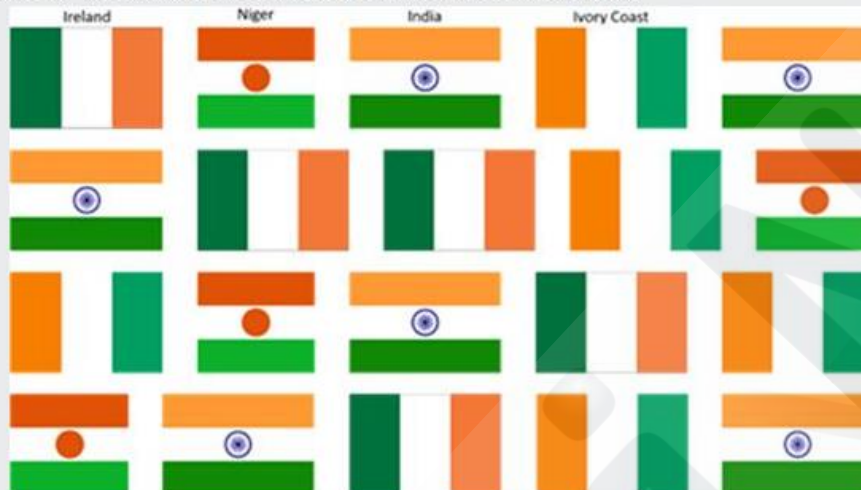
• Correct Answer : A

Paragraph:

Carefully observe the given image set which comprises of flags of 4 nations- Ireland, Niger, India and the Ivory Coast. The common feature of these flags is that they have stripes either horizontal or vertical.

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.124 Which country's flag is repeated the most?

[Marks:3]

Options :

- a. India
- b. Niger
- c. Ireland
- d. Ivory Coast

• Correct Answer : A

Q.125 Name the countries for which the flags do not have a central emblem/ motif from the image displayed.

[Marks:3]

Options :

- a. Niger and India
- b. India and Ireland
- c. Ireland and Ivory Coast
- d. Ireland and Niger

• Correct Answer : C