

NATA 2022 – 2nd Attempt QUESTION PAPER SHIFT 2

Q.1 If the perimeter of the circle and square are equal, then the ratio of their areas will be equal to: [Marks:1]

Options :

- a. 7:22
- b. 22:7
- c. 14:11
- d. 11:14

• **Correct Answer : C**

Q.2 Every point on a number line represents which of the following? [Marks:1]

Options :

- a. A unique real number
- b. A natural number
- c. A rational number
- d. An irrational number

• **Correct Answer : A**

Q.3 If Christmas was on a Sunday in 2011, what day will it be in 2012? [Marks:1]

Options :

- a. Sunday
- b. Monday
- c. Tuesday
- d. Wednesday

• **Correct Answer : C**

Q.4 What name is given to the following sequence: 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55...? [Marks:1]

Options :

- a. Arithmetic sequence
- b. Geometric sequence
- c. Harmonic sequence
- d. Fibonacci sequence

• **Correct Answer : D**

Q.5 An event is very unlikely to happen. Its probability is closest to [Marks:1]

Options :

- a. 0.0001
- b. 0.001
- c. 0.01

d. 0.1

• **Correct Answer : A**

Q.6 A tank is filled by three pipes with uniform flow. The first two pipes operating simultaneously fill the tank in the same time during which the tank is filled by the third pipe alone. The second pipe fills the tank 5 hours faster than the first pipe and 4 hours slower than the third pipe. The time required by the first pipe is: [Marks:1]

• **Correct Answer : 15**

Q.7 A man buys a watch for Rs. 1950 in cash and sells it for Rs. 2200 at a credit of 1 year. If the rate of interest is 10% per annum, the man gains how much? [Marks:1]

(Answer to be given in Rupees)

• **Correct Answer : 50**

Q.8 Rohit multiplies a number by 2 instead of dividing the number by 2. Resultant number is what percentage of the correct value? [Marks:1]

(Answer to be provided in %)

• **Correct Answer : 400**

Q.9 The sum of two numbers is 5 times their difference. If the smaller number is 24, find the larger number. [Marks:1]

• **Correct Answer : 36**

Q.10 What is the greatest four-digit number which is exactly divisible by 12, 15, 20 and 54? [Marks:1]

• **Correct Answer : 9720**

Q.11 Optical fiber works on the principle of [Marks:1]

Options :

- a. Scattering
- b. Interference
- c. Total internal reflection
- d. refraction

• **Correct Answer : C**

Q.12 The working principle of a washing machine is [Marks:1]

Options :

- a. Reverse osmosis

- b. Diffusion
- c. Centrifugation
- d. Dialysis

• **Correct Answer : C**

Q.13 The purpose of a choke in a tube light is to

[Marks:1]

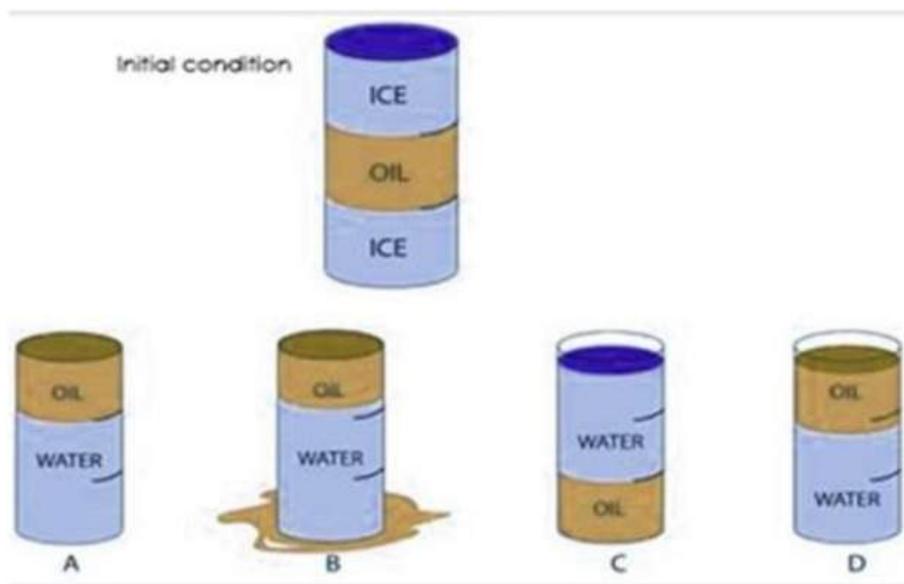
Options :

- a. Induce high voltage
- b. Induce low resistance
- c. Induce high resistance
- d. Induce low voltage

• **Correct Answer : A**

Q.14 A cylindrical container with layers of ice and frozen oil are shown below. After the contents of the container melt and settle, which of the options given below will be the correct result.

[Marks:1]



Options :

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

• **Correct Answer : D**

Q.15 Which of the following statements about the electric field lines is incorrect?

[Marks:1]

Options :

- a. Electrostatic field lines cannot intersect.
- b. Electrostatic field lines cannot form closed loops.

- c. Electrostatic field lines must be normal to the surface of the conductor.
- d. Electrostatic field lines cannot originate from the positive charge

• **Correct Answer : D**

- Q.16** A stone is dropped into a deep well and is heard to hit the water 3.41 s after being dropped. Determine the depth of the well. [Marks:1]

(Answer to be provided in m)

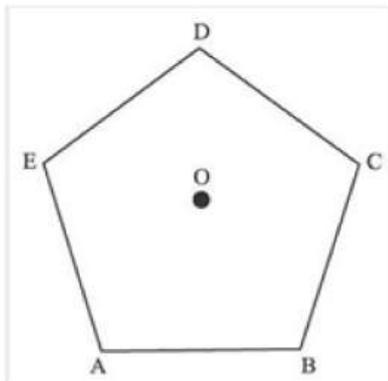
• **Correct Answer : 57**

- Q.17** An engineer is designing the runway for an airport. Of the planes that will use the airport, the lowest acceleration rate is likely to be 3 m/s^2 . The takeoff speed for this plane will be 65 m/s. Assuming this minimum acceleration, what is the minimum allowed length for the runway? [Marks:1]

(Provide answer in m)

• **Correct Answer : 704**

- Q.18** ABCDE is a regular pentagon. O is a point inside the pentagon such that AOB is an equilateral triangle. What is $\angle OEA$? [Marks:1]



Options :

- a. 66°
- b. 48°
- c. 54°
- d. 72°

• **Correct Answer : A**

- Q.19** The field of study concerned with the properties of geometric objects that are unchanged by continuous mappings is called [Marks:1]

Options :

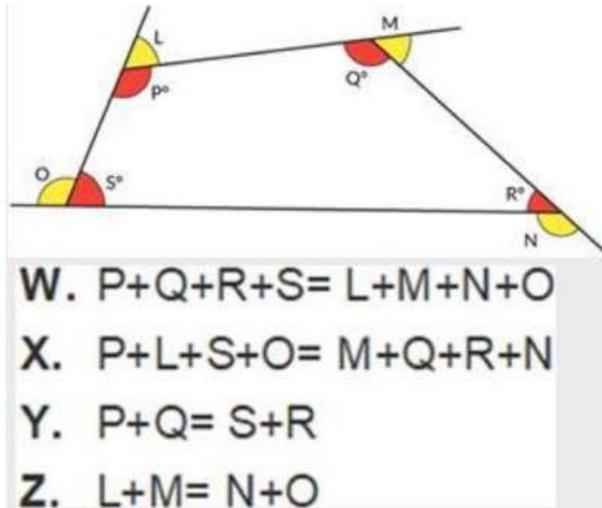
- a. Algebraic geometry
- b. Topology

- c. Convex geometry
- d. Differential geometry

• **Correct Answer : B**

Q.20 Which of the options given below are correct?

[Marks:1]



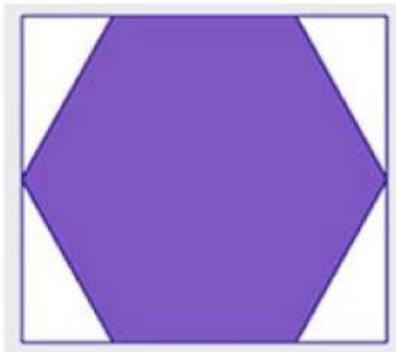
Options :

- a. Y and Z
- b. X and Y
- c. W and X
- d. X and Z

• **Correct Answer : C**

Q.21 What fraction of the figure is unshaded?

[Marks:1]



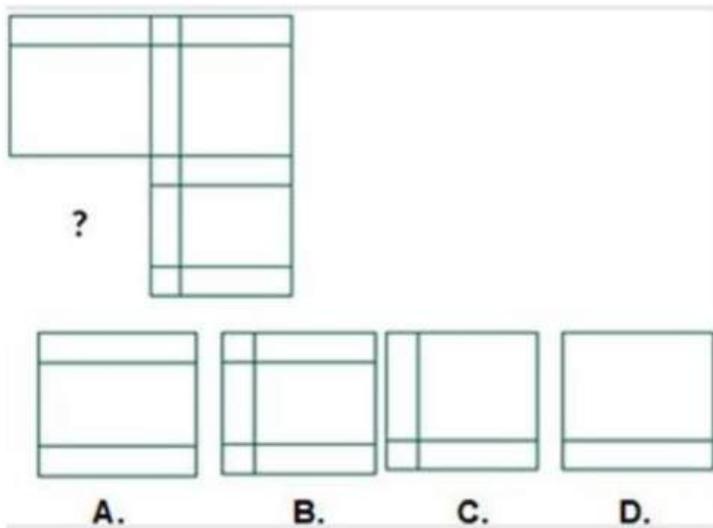
Options :

- a. $\frac{5}{6}$
- b. $\frac{1}{4}$
- c. $\frac{2}{3}$
- d. $\frac{4}{5}$

• **Correct Answer : B**

Q.22 Which of the following options complete the pattern?

[Marks:1]

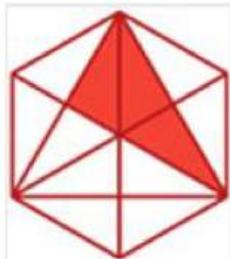


Options :

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

• **Correct Answer : A**

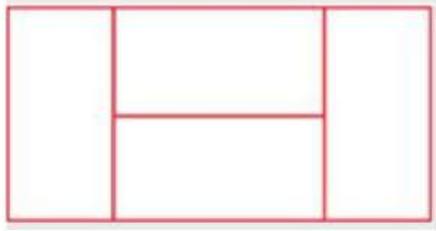
Q.23 How many triangles of the same size as the highlighted triangle are there in the figure? [Marks:1]



• **Correct Answer : 6**

Q.24 Four equal rectangles combine to form a bigger rectangle as shown in the figure below. [Marks:1]

If the length of a shorter side of each small rectangle is 10 cm; What is the length of a longer side of the larger rectangle?



- **Correct Answer : 40**

Q.25 Circle with centre O and radius 25 cm has a chord AB of length of 14 cm in it. Find the area of triangle AOB. (Provide answer in cm²) [Marks:1]

- **Correct Answer : 168**

Q.26 Improve the part of the sentence that is italicized and underlined using the alternatives given below to improve the sentence. [Marks:1]

If the room had been brighter, I would have been able to read for a while before bed time.

Options :

- If the room was brighter
- Had the room been brighter
- If the room are brighter
- Bright was the room

- **Correct Answer : B**

Q.27 His conduct is bad, and his honesty is not..... suspicion. [Marks:1]

Options :

- Beyond
- Under
- in
- Above

- **Correct Answer : D**

Q.28 Which word in the following options can be substituted in the given sentence to describe the person portrayed? [Marks:1]

One absorbed in his own thoughts and feelings rather than in things outside.

Options :

- Scholar
- Intellectual
- Introvert
- Recluse

- **Correct Answer : D**

Q.29 A Guarantee is a promise or formal assurance that attests to the quality of a product. It is generally given in writing by the company or verbally by a person selling the product. It says that a product will be repaired, replaced or money will be refunded if it is not of a specified quality. [Marks:1]

Which of the following situations is the best example of the Guarantee?

Options :

- a. Tom bought a cell phone with the highest consumer ratings in its category.
- b. The salesperson assures Peter that he is buying a camera with a guarantee.
- c. Peter buys a used camera from John. John assures that it is a quality product and he will refund the money if the camera does not work properly.
- d. The auto body shop is specialized in refurbishing and selling used cars.

• **Correct Answer : C**

Q.30 Complete the incomplete statement correctly and meaningfully. [Marks:1]

His appearance is unsmiling but.....

Options :

- a. he looks very serious on most occasions
- b. people are afraid of him
- c. his heart is full of compassion for others
- d. he is full of jealousy towards his colleagues

• **Correct Answer : C**

Paragraph:

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

Whales are the largest animals that have ever lived on earth - even bigger than the largest dinosaur. It is believed that, millions of years ago, whales walked upon land. With passage of time, their hindlimbs disappeared and their forelimbs became flippers. Whales do not have gills and cannot breathe underwater. They need to come to the surface of the water to breathe through their blowhole which is on their back.

As whales are mammals, they suckle their babies. A baby whale is called a calf. Whales are noisy and talkative. They love talking to each other and squeak, moan and groan. These underwater sounds can travel great distances. The sounds they make are called whale songs. Whales are the loudest animals in the world.

Blue whales are the largest animals on the planet. The killer whale, also known as the orca, has a spindle-like shape and beautiful, crisp black and white markings, making them striking and unique. The humpback whale has majestic tail and variety of spectacular behaviors. Humpback whales live in all oceans around the world. They

travel great distances every year and have one of the longest migrations of any mammal on the planet.

Beluga whales live in colder seas and extremely social creatures, like dolphins. They can whistle, they can chirp, and captive belugas are also known to mimic human voices. Today whales are fighting for their survival. Water pollution has been one of the major causes of depletion in their numbers. Conservation of whales is a major concern for conservationists and environmentalists.

Q.31 Another word for a whale's spout is

Options :

- a. snout.
- b. blow.
- c. gills
- d. blowhole.

• **Correct Answer : D**

Q.32 As mammals, whales

[Marks:1]

Options :

- a. give birth to babies.
- b. suckle their babies.
- c. do not have gills.
- d. All of the above.

• **Correct Answer : D**

Q.33 Which is the largest animal on the planet?

[Marks:1]

Options :

- a. Beluga
- b. Blue whale
- c. Elephant
- d. Humpback whale

• **Correct Answer : B**

Q.34 The canary of the sea is

[Marks:1]

Options :

- a. the beluga
- b. the humpback whale
- c. the orca
- d. the blue whale

• **Correct Answer : A**

Paragraph:

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

Floods are not new to India and this sub-continent, but in recent years the problem has received much greater attention perhaps because it has led to greater damage than in the past. Even though information on the impending occurrence of floods is certainly timelier, often there is very little time or support infrastructure in place by which damage can be minimized. This is particularly true in the case of flash floods resulting from sudden and excessively heavy rain.

In the case of India flooding is very much a function of the seasonal nature of our rainfall. The monsoons are spread over a short period during the year and often bring a concentrated volume of rain, which cannot be absorbed by the earth and finds outlet only in the form of streams that join up with our major river systems. When these streams spill over they cause excessive harm, mainly because those living near their banks particularly in mountain areas do not have easy recourse to moving away quickly.

One major factor that could lead to a higher severity of flooding in the future is the danger of climate change. Climate change is the result of human actions through the increased concentration of greenhouse gases in the atmosphere, of which carbon dioxide is the most prominent. While the nature of impacts resulting from climate change is not entirely clear, it could happen that the Indian subcontinent witnesses and suffers the effects of a significantly changed pattern of monsoons. One set of scientists has estimated that the monsoons could be shorter in duration, but far more intensive. In other words, much greater precipitation would take place in a much shorter period of time, thereby increasing the danger of floods.

Q.35 Climate change is the direct result of which of the following? [Marks:1]

Options :

- a. fire in oil wells in the gulf region
- b. explosion of nuclear devices
- c. increased concentration of greenhouse gases
- d. significantly changed pattern of monsoons

• **Correct Answer : C**

Q.36 Why do flash floods occur? [Marks:1]

Options :

- a. Embankments of rivers are weak
- b. Sudden and excessively heavy rain
- c. Poor support infrastructure
- d. Flood forecasting is not accurate

• **Correct Answer : B**

Q.37 What does the word 'precipitation' mean? [Marks:1]

Options :

- a. forming a precipitate
- b. separation of solid material from liquid
- c. the quality of being exact or accurate
- d. falling of rain in an area

• **Correct Answer : D**

Q.38 The problem of floods has been considered important recently [Marks:1]
because.....

Options :

- a. there are flash floods
- b. floods are unpredictable
- c. the rivers change their courses
- d. these cause much greater damage

• **Correct Answer : A**

Paragraph:

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

We live in an age of wonders and miracles. It has been called the 'Age of Science'. Take the example of the Internet. On one hand, access to information and knowledge at the click of a button is a veritable boon to everyone (especially students) and this has made our lives much simpler. On the other hand, it has severely limited actual contact with teachers, friends and elders. Owing to all the technological advancements and the gadgets available today, children often miss out on the most enriching childhood experiences such as playing outdoor games with friends, also develop traits such as teamwork and discipline at an early age. Mobile phones for entertainment can never really substitute for the holistic benefits of outdoor play.

As for me, I think this age of rapid development has created at least as many problems as it has solved, if not more. Money and happiness are considered analogous in our present society, but they actually are not so. In this mindless pursuit of money, nobody has time now to appreciate the beauty of life, but a simple act of kindness to someone in a time of need.

I sincerely wish that we, as the most intelligent species on earth, would take our fair share of responsibility and sincerely think about the path we should follow

Q.39 Antonym of holistic is [Marks:1]

Options :

- a. Agonistic
- b. Pessimistic
- c. Optimistic
- d. Individualistic

• **Correct Answer : D**

Q.40 Which of the following is not true about the internet?

[Marks:1]

Options :

- a. It's an easy access to information and knowledge.
- b. It can easily give advice based on personal experience.
- c. It has limited actual contact with teachers and friends.
- d. It has made our lives simpler.

• **Correct Answer : B**

Q.41 According to the passage, true happiness lies in

[Marks:1]

Options :

- a. simple acts of kindness.
- b. social media
- c. multibillion-dollar skyscrapers.
- d. pursuit of money.

• **Correct Answer : A**

Q.42 Internet hampers the holistic growth of a child by.....

[Marks:1]

Options :

- a. encouraging human traits of friendship, society and family.
- b. providing virtual friends and gadgets.
- c. enriching childhood experiences of outdoor games.
- d. developing teamwork and discipline.

• **Correct Answer : B**

Paragraph:

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

Mangroves are a special type of vegetation. And they are found in the intertidal regions where freshwater and saltwater intermix, in the bays, estuaries, creeks, and lagoons. They are the salt-tolerant variety of plants, which can survive in harsh conditions. And they are economically and ecologically significant.

Mangrove forests only grow at tropical and subtropical latitudes near the equator because they cannot withstand freezing temperatures. There are about 80 different species of mangrove trees. And The trees are generally 8- 20 m high and have thick leaves. They have blind roots which are called Pneumatophores. These roots help these trees to respire in anaerobic soils. The seeds of Mangrove Forests trees germinate in the trees itself before falling - This is called Viviparity mode of reproduction.

Many mangrove forests can be recognized by their dense tangle of prop roots that make the trees appear to be standing on stilts above the water. This tangle of roots allows the trees to handle the daily rise and fall of tides, which means that most mangroves get flooded at least twice per day.

The roots also slow the movement of tidal waters, causing sediments to settle out of the water and build up the muddy bottom.

Mangrove forests stabilize the coastline, reducing erosion from storm surges, currents, waves, and tides. The intricate root system of mangroves also makes these forests attractive to fish and other organisms seeking food and shelter from predators.

Q.43 Which among the following is NOT a locational characteristic for a mangrove ecosystem? [Marks:1]

Options :

- a. Intertidal regions
- b. Tropical and subtropical latitudes
- c. Oceans
- d. Estuaries, creeks and lagoons

• **Correct Answer : C**

Q.44 How do mangrove forests stabilize the coastline? [Marks:1]

Options :

- a. by reducing erosion
- b. by controlling temperatures
- c. by providing habitat for fish
- d. by desilting

• **Correct Answer : A**

Q.45 Roots that arise from the trunk and descend into water are called [Marks:1]

Options :

- a. Aerial roots
- b. Prop roots
- c. Taproot
- d. Fibrous root

• **Correct Answer : B**

Q.46 Mangroves are economically and ecologically significant because [Marks:1]

Options :

- a. Provision of food and clean water
- b. Influence climate regulation and mitigate disasters
- c. Provide cultural services
- d. All of the above

• **Correct Answer : D**

Paragraph:

Go through the illustrated storyboard carefully.. You will have to answer four questions based on the :



This is a look at what my "New Normal" looks like. Since March 13th, 2020, I have spent a lot of time at home!



My "New Normal" is based on the global pandemic Covid-19, and the health standards and restrictions mandated in California. To stay safe, I stay at home and practice social distancing.



I meet with my students through Distance Learning, and use Google Classroom to push out assignments & communicate. I even finished my Master's degree in March, but cannot "walk" due to Covid-19.



Connecting with my Professional Learning Network, such as my colleagues at work, or my CSUSM Summer Writing Institute, was safe and easy! We Zoomed through the day, collaborating and sharing ideas.



The "Silver Lining" throughout my new normal: the quality time spent with my family... cooking, playing games, and taking care of my new granddaughter Hallie.



Although we are still in the middle of a Pandemic, and COVID-19 is still rising, I am staying connected with my family at home, and my students and colleagues virtually. My new normal... it's not so bad!

Q.47 For the author 'Silver lining' in the given passage means

Options:

- Meeting students virtually
- Distance learning
- Loving quality family time

d. Connecting with colleagues

• **Correct Answer : C**

Q.48 What is the author's mode of connecting with the students? [Marks:1]

Options:

- a. WhatsApp
- b. Google classroom
- c. Coffee time
- d. Zoom meets

• **Correct Answer : B**

Q.49 How did the author collaborate with her colleagues? [Marks:1]

Options :

- a. Zoom meets
- b. Writing letters
- c. Placing calls
- d. Walking to work

• **Correct Answer : A**

Q.50 The 'New Normal' is based on which of the following in the given passage [Marks:1]

Options :

- a. Global Pandemic COVID 19
- b. health standards and restrictions
- c. Social distancing
- d. All of the above

• **Correct Answer : D**

Q.51 Glazing is used to make earthenware [Marks:2]

Options :

- a. hard
- b. soft
- c. porous
- d. impervious

• **Correct Answer : D**

Q.52 Which is the purest form of iron? [Marks:2]

Options :

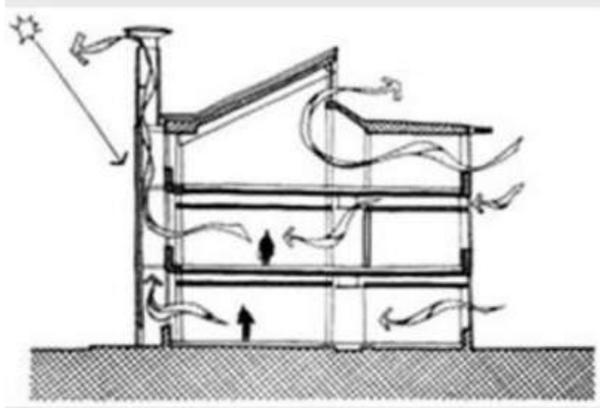
- a. Cast iron
- b. Wrought iron
- c. Mild steel

d. High carbon steel

• **Correct Answer : B**

Q.53 What does the image given below primarily illustrate?

[Marks:2]



Options :

- a. Stack effect
- b. Evaporating cooling
- c. Zeeman effect
- d. Thermal cooling

• **Correct Answer : A**

Q.54 If the direction of the wind is at 90° to one of the faces, positive pressure will be produced on _____.

[Marks:2]

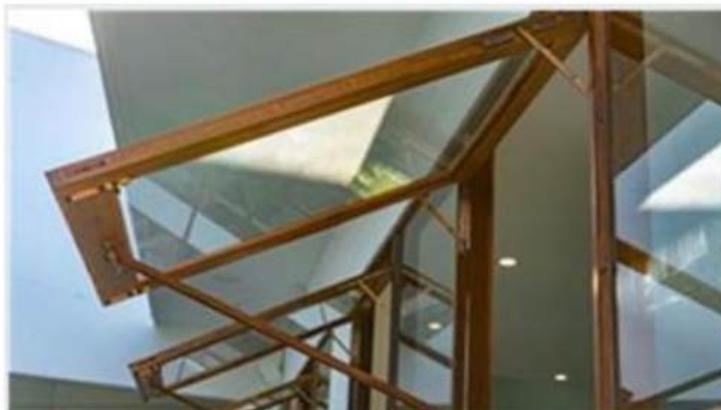
Options :

- a. Windward face
- b. Leeward face
- c. Two windward faces
- d. Two leeward faces

• **Correct Answer : B**

Q.55 What is the type of window shown in the image?

[Marks:2]



Options :

- a. awning window
- b. louvered window
- c. casement window
- d. bay window

• **Correct Answer : A**

Q.56 Who is the author of the book 'Lateral Thinking'?

[Marks:1]

Options :

- a. Ayn Rand
- b. Robin Sharma
- c. Edward de Bono
- d. Sudha Murthy

• **Correct Answer : C**

Q.57 Amongst the following famous Indian personalities who is NOT a Nobel Laureate?

[Marks:1]

Options :

- a. Kailash Satyarthi
- b. Venkatraman Ramakrishnan
- c. Subrahmanyan Chandrasekar
- d. Jamshedji Tata

• **Correct Answer : D**

Q.58 Which is the highest sporting award in India?

[Marks:1]

Options :

- a. Dhyan Chand Award
- b. Maulana Abdul Kalam Azad Trophy
- c. Arjuna Award
- d. Dronacharya Award

• **Correct Answer : A**

Q.59 Which of these dance forms is NOT a classical dance form?

[Marks:1]

Options :

- a. Bharatnatyam
- b. Odissi
- c. Manipuri
- d. Bihu

• **Correct Answer : D**

Q.60 Elon Musk is in the business of making:

[Marks:1]

Options :

- a. Reusable Rockets, Solar roof tiles, Transportation tunnels
- b. Transportation Tunnels, Shape Shifting mobile phones, Solar roof tiles
- c. Haptic Holograms, Teleportation, Transportation tunnels, Reusable Rockets
- d. High Octane Fuel, Transportation Tunnels, Solar roof tiles

• **Correct Answer : A**

Q.61 Spot the odd name out of the list

[Marks:1]

Options :

- a. Mozart
- b. AR Rehman
- c. Beethoven
- d. Sonu Nigam

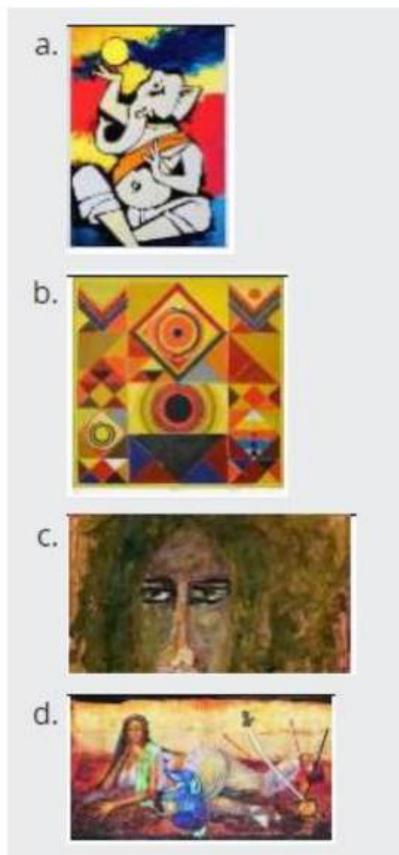
• **Correct Answer : D**

Q.62 Match the 4 paintings of the famous artists.

[Marks:1]

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

Options :



- p. S H Raza
- q. Anjali Ela Menon
- r. M F Hussain
- s. Rabindranath Tagore

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

Q.63 Select three figures out of the following five figures which when fitted into each other would form a square. [Marks:2]



Options :

- a. 1, 2, 4
 - b. 1, 2, 5
 - c. 5, 3, 1
 - d. 2, 3, 4
- **Correct Answer :** B

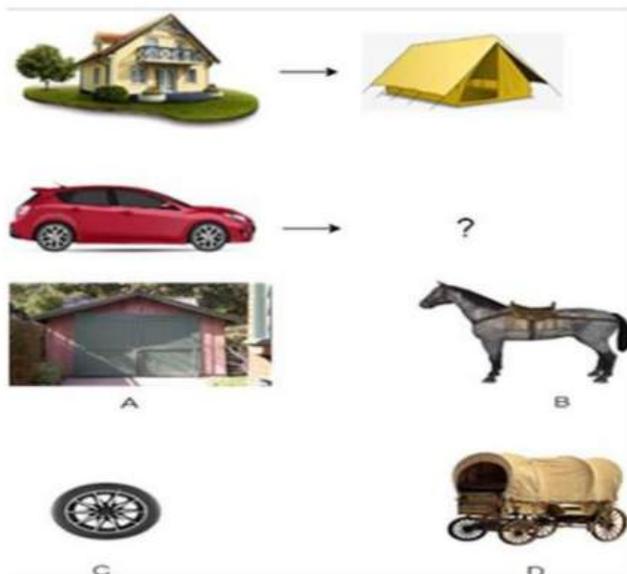
Q.64 Which is the missing number in the series? [Marks:2]

20, 40, 100, ? , 820

Options :

- a. 240
 - b. 260
 - c. 280
 - d. 300
- **Correct Answer :** C

Q.65 The first pair is complete, while the second pair is not complete. Which picture out of four option pictures given below will complete the second pair so that pictures in the second pair are related to each other in the same way as the pictures in the first pair are related to each other? [Marks:2]



Options :

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

• **Correct Answer : D**

Q.66 Sunil is the brother of Anil. Anil is the son of Sohan. Meena is Sohan's mother. How is Sunil related to Meena? [Marks:2]

Options :

- a. Son
- b. Grandson
- c. Brother
- d. Grandfather

• **Correct Answer : B**

Q.67 Tom walked 10 m towards north then turned right and walked 25 m. Then he turned right and walked 30 m. Now he turned left and walked 10 m. Finally, he turned left and walked 20 m. How far and in which direction is he from the starting point? [Marks:2]

Options :

- a. 50 m East
- b. 30 m North
- c. 40 m North
- d. 35 m East

• **Correct Answer : D**

Q.68 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. Analogous
- b. Datum
- c. 3 D effect
- d. Line
- e. Parallelism
- f. Repetition
- g. Hierarchy
- h. Monochrome
- i. Order

- **Correct Answer :** C, D, E, F, H

Q.69 Choose any four **most appropriate principles / elements of design** which [Marks:2]
can be commonly observed in the given image.

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



Options :

- a. Line
- b. Pattern
- c. Datum
- d. Repetition
- e. Focal point
- f. Intersections
- g. Shape
- h. Depth
- i. Gradation

- **Correct Answer : A, C, D, E, G, I**

Q.70 Choose any **four most appropriate principles / elements of design** which [Marks:2]
can be commonly observed in the given 3 D image.

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



Options :

- Repetition
- Pattern
- Datum
- Progression
- Focal points
- Dynamic
- Transparency
- Solids
- Analogous

- **Correct Answer : A, D, E, F, H**

Q.71 Identify the monument from the detail of an edifice given below: [Marks:2]

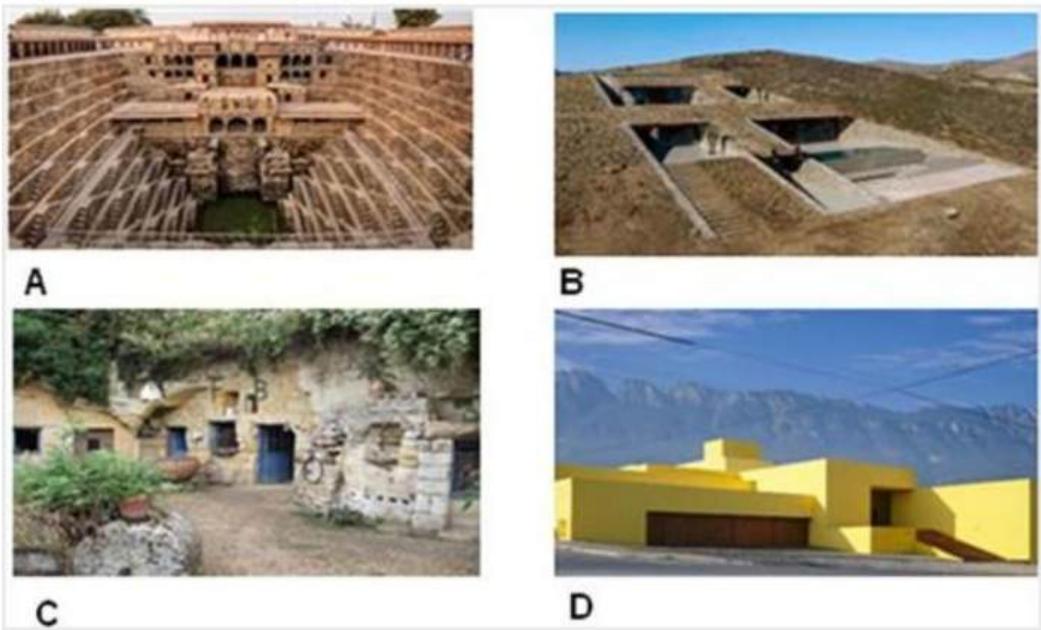


Options :

- a. Buland Darwaja, Fatehpur Sikri
- b. Charminar, Hyderabad
- c. Gateway of India, Mumbai
- d. Qutb Minar, N Delhi

• **Correct Answer : D**

Q.72 Which among the following options is NOT an example of subterranean architecture? [Marks:2]



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]



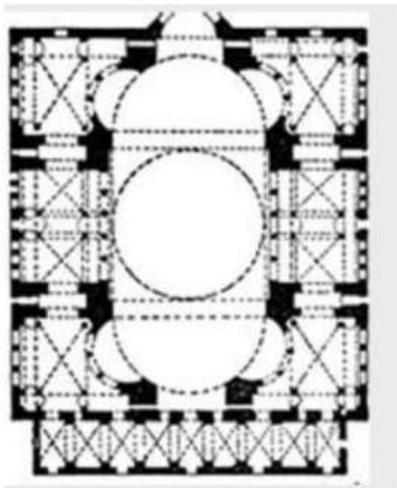
Options :

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

• **Correct Answer : A**

Q.74 The given image is a plan of the Hagia Sophia, Constantinople. Identify any two most appropriate spatial principles from the options given below. [Marks:2]

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



Options :

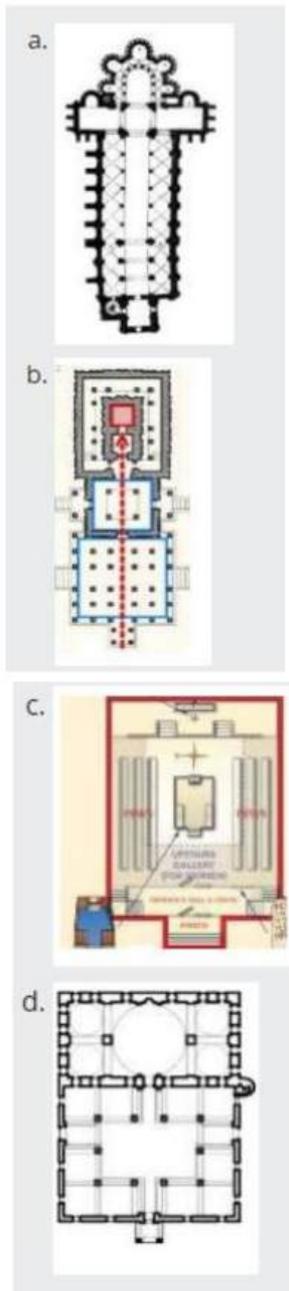
- a. Centralized
- b. Linear
- c. Tripartite division
- d. Mandala

• **Correct Answer : A or C**

Q.75 Match the spatial plans of the religious building with the faith they belong to. [Marks:2]

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

Options :

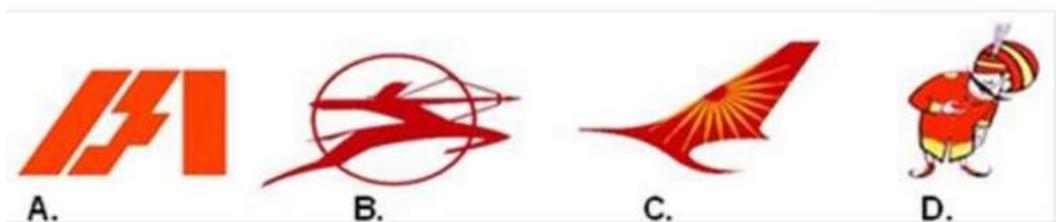


- p. Jew
- q. Christian
- r. Islam
- s. Hinduism

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

Q.76 Identify the ODD one out.

[Marks:2]

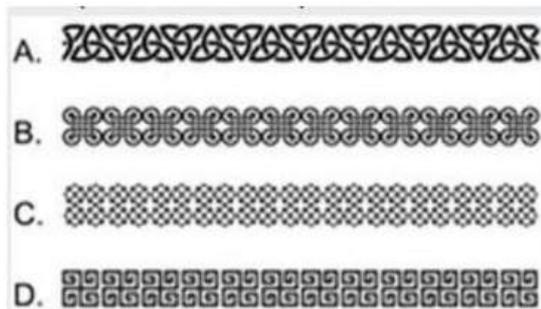


Options :

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

• **Correct Answer : D**

Q.77 Below are few patterns/ motifs of various cultures. Identify the option which best depicts an Islamic pattern. [Marks:2]



Options :

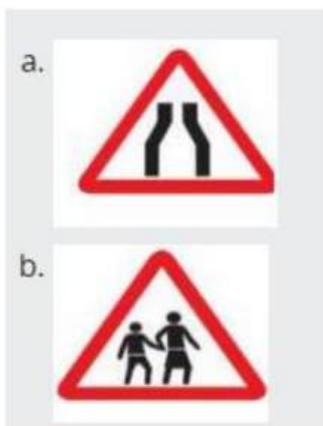
- a. A
- b. B
- c. C
- d. D

• **Correct Answer : C**

Q.78 Match the following: [Marks:2]

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

Options :





- p. School zone
- q. Merging traffic ahead
- r. Narrow Road ahead
- s. Men at work

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

Q.79 What does this sign inform?

[Marks:2]



Options :

- a. Hospital zone
- b. Barrier free zone
- c. Contradicting directions
- d. Hazard safe zone

• **Correct Answer :** B

Q.80 The following are the images of four zodiac signs. Find the odd one out..

[Marks:2]

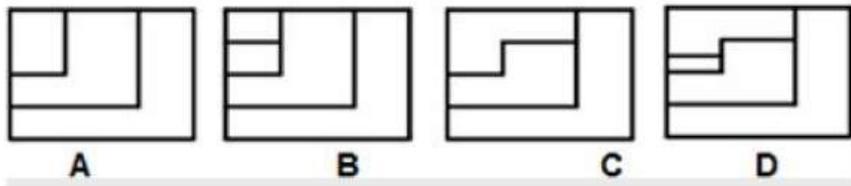
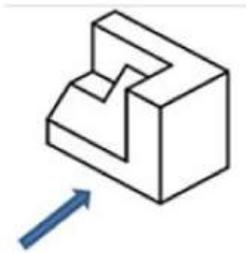


Options :

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

• **Correct Answer : C**

Q.81 The 3- D figure shows the view of an object. Identify the correct front view from amongst the answer figures. [Marks:2]



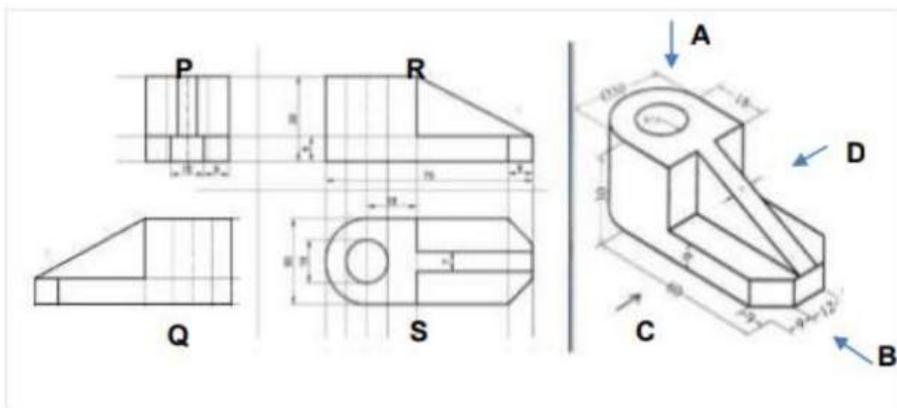
Options :

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

• **Correct Answer : C**

Q.82 Match the views as indicated by arrows in the figure given on the right with the answer options give on the left. [Marks:2]

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



Options :

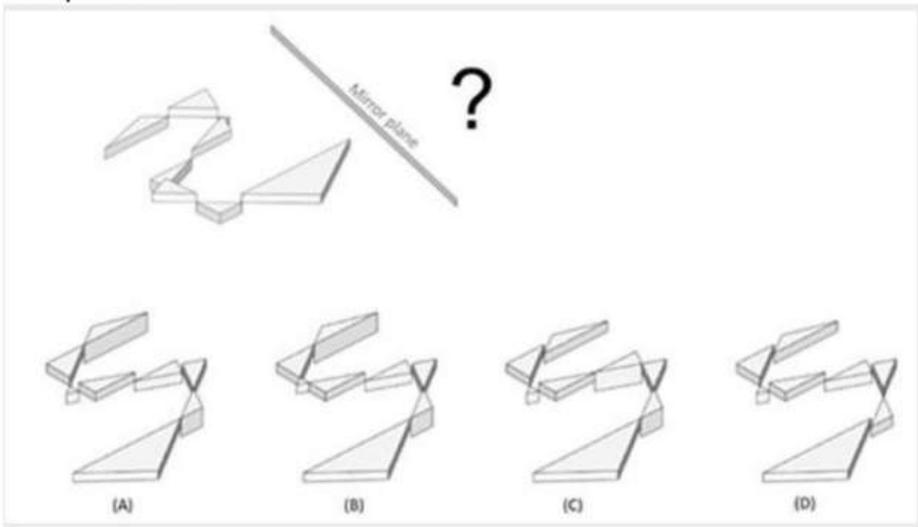
- a. A
- b. B
- c. C
- d. D

- p. P
- q. Q
- r. R
- s. S

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

Q.83 Identify the correct MIRROR image for the given 3D composition

[Marks:2]



Options :

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

• **Correct Answer :** D

Q.84 How many interlocking rectangular prisms are there in the given image?

[Marks:2]



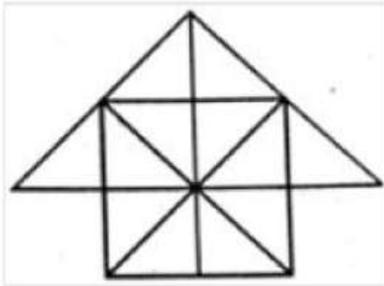
Options :

- a. 6
- b. 4
- c. 5
- d. 7

• **Correct Answer : A**

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

[Marks:2]



Options :

- a. 28
- b. 24
- c. 26
- d. 20

• **Correct Answer : C**

Q.86 A monochromatic work of art contains which of the following?

[Marks:2]

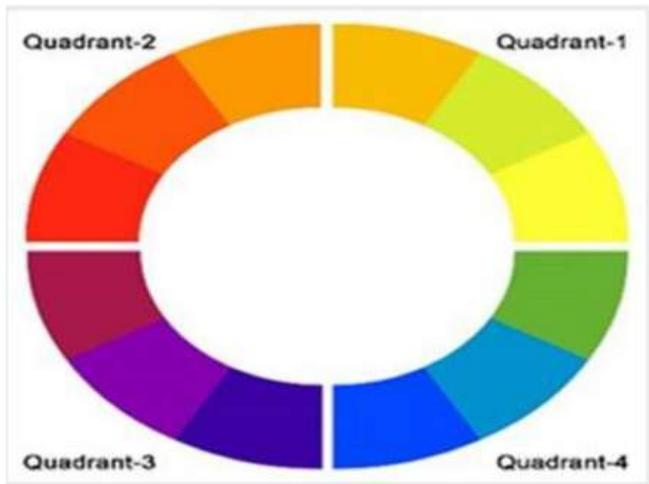
Options :

- a. Three colors next to one and another on the color wheel
- b. One color plus one complement
- c. One color plus tints and shades of that color
- d. All cool colors.

• **Correct Answer : C**

Q.87 In the depicted color wheel, which if 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 : A**

Q.88 Identify the colour palette of the interior image from amongst the choices given below.

[Marks:2]

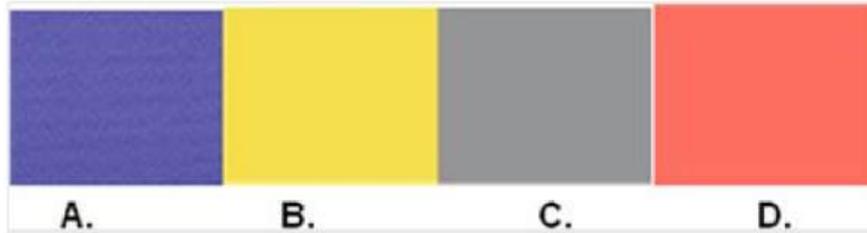


Options :

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

- **Correct Answer : B**

Q.89 Which of the following colors was awarded the Pantone Color of the Year 2022? [Marks:2]



Options :

- a. Very Peri
- b. Illuminating
- c. Ultimate grey
- d. Living coral

• **Correct Answer : A**

Q.90 With respect to color match the following: [Marks:2]

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

Options :

- a. Hue
- b. Tint
- c. Shade
- d. Tone

- p. Add grey
- q. Pure color
- r. Add white
- s. Add black

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

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. Repetition
- b. Focal points
- c. Line
- d. Rhythm
- e. 3 Dimension
- f. Convergence
- g. Symmetry
- h. Parallelism
- i. Line-weight

- **Correct Answer :** A, B, C, H, I

Q.92 Identify the four most important visual principles/ elements in the photograph given below. (Marks will be awarded only if all answers are right)

[Marks:2]



Options :

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

- **Correct Answer :** A, C, 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. Shape
- b. Depth
- c. Pattern
- d. Gradation
- e. Blur
- f. Repetition
- g. Symmetry
- h. Analogous
- i. Distortion

- **Correct Answer :** A, D, E, F, H

Q.94 Identify the painter.

[Marks:1]

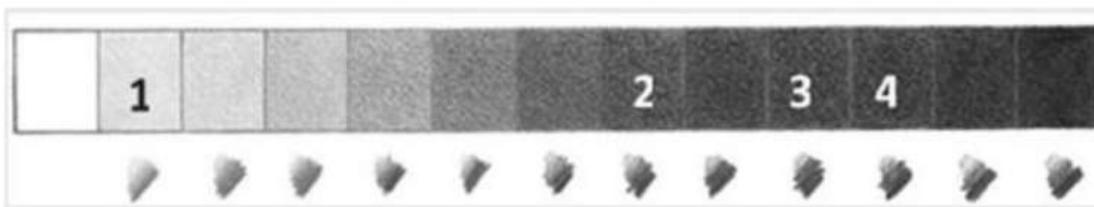


Options :

- a. Anjali Ela Menon
- b. Anamika V
- c. Amrita Sher Gil
- d. Anitha Dubey

• Correct Answer : C

Q.95 If '1' Represents 'H' pencil when drawn at a particular pressure identify the equivalent of '5B' tip drawn with the same pressure [Marks:1]



Options :

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

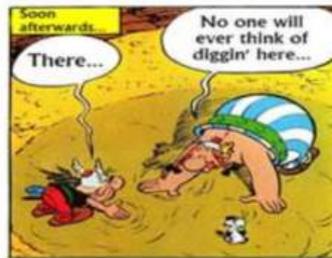
• Correct Answer : B

Q.96 Identify the correct sequence of the cartoon strip given below.





S



T



U

Options :

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

• Correct Answer : D

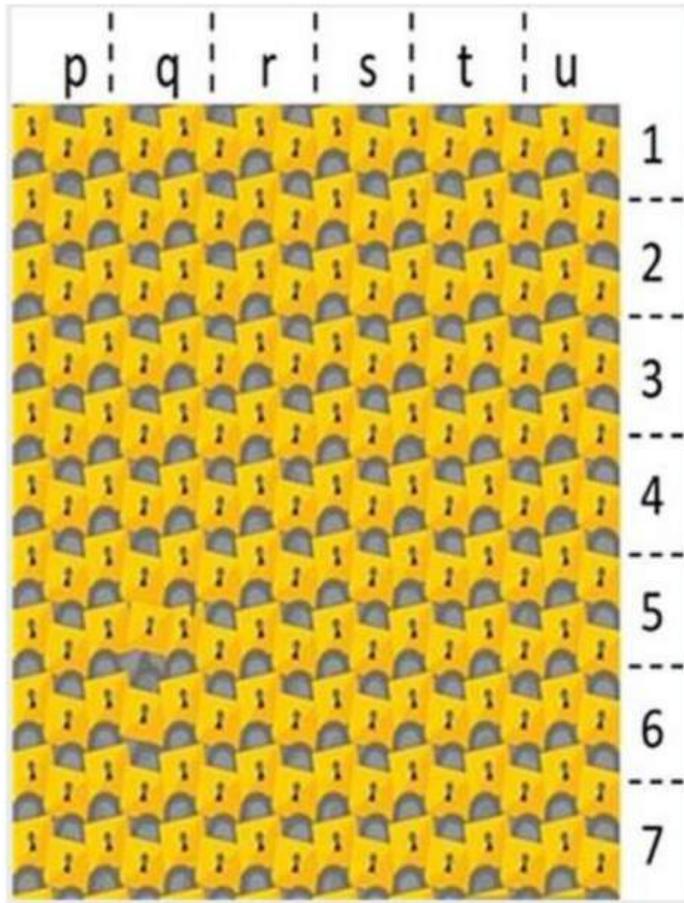
Q.97 Spot the number of differences between the two images given below. [Marks:2]



• Correct Answer : 7

Q.98 Spot the open padlock in the given image. [Marks:2]

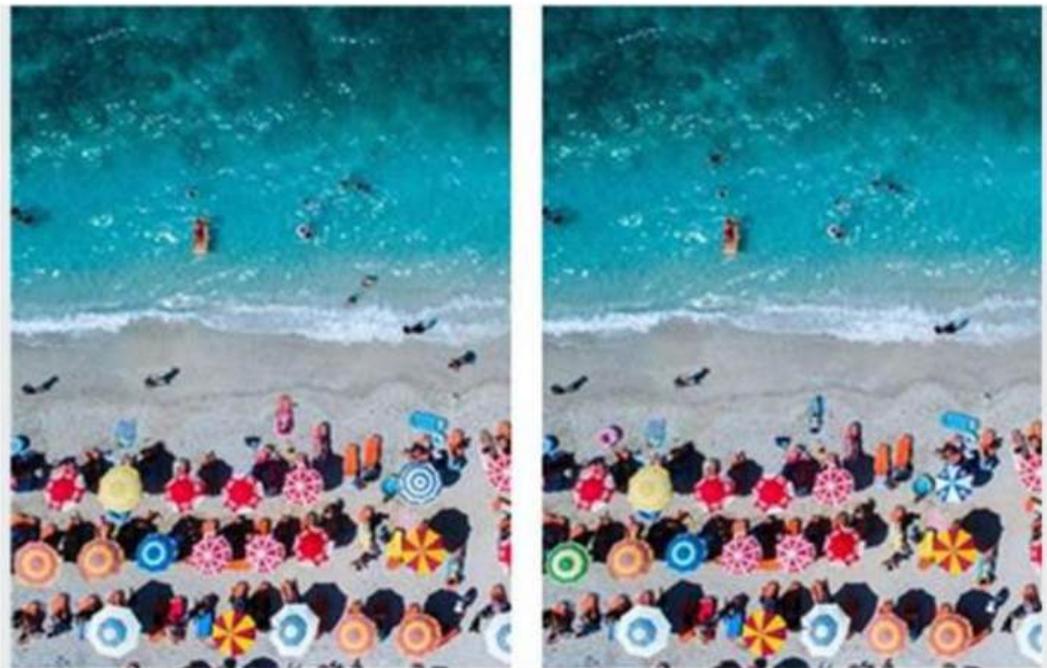
(Enter the correct answer as a-8, b-9, and so on)



- Correct Answer : q-5

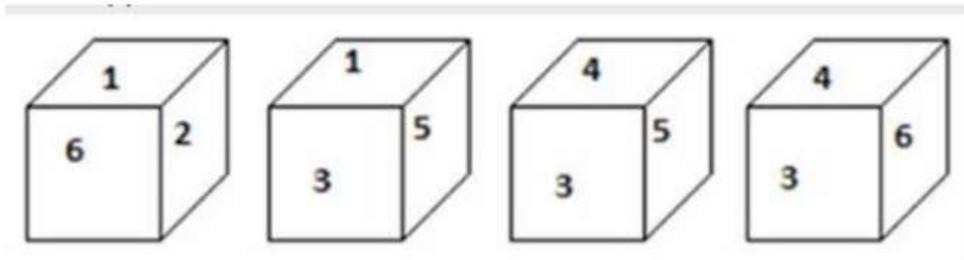
Q.99 Spot the number of differences between the two images given below.

[Marks:2]



• **Correct Answer : 7**

Q.100 From the positions of a cube are shown below, which number will be on the face opposite to face with '1'? [Marks:2]



• **Correct Answer : 4**

Q.101 Find the missing pair in the given question from the choices listed below: [Marks:2]

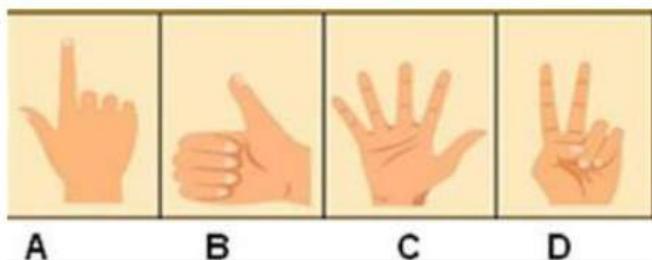
CELEBRATE: MARRIAGE :: ?

Options :

- a. Maintain: satisfaction
- b. Lament: Bereavement
- c. Pot: Pans
- d. Face: Penalty

• **Correct Answer : B**

Q.102 Find the ODD one out. [Marks:2]



Options :

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

• **Correct Answer : D**

Q.103 Find the odd number. [Marks:2]

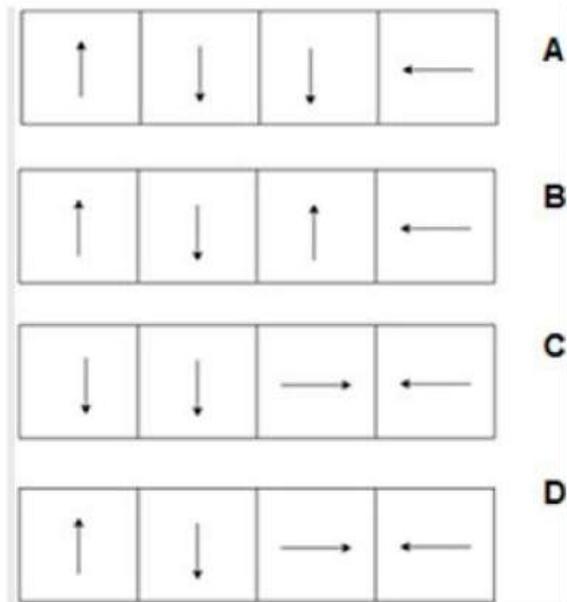
396, 462, 572, 427, 671, 264

• **Correct Answer : 427**

Q.104 Which of the following series of arrows follows the given rule?

[Marks:2]

Rule: The arrows of the given series can be combined without changing their direction to form a meaningful image.



Options :

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

• **Correct Answer : D**

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 :

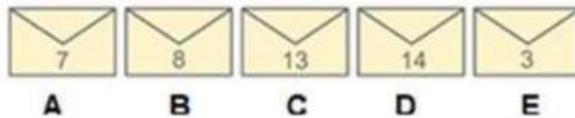
- a. 100
- b. 50
- c. 20
- d. 10

- **Correct Answer : D**

Q.107 A set of ten cards, each showing one of the digits from 0 to 9, is divided up [Marks:2] between five envelopes so that there **are two cards in each envelope**.



The sum of the two numbers inside it is written on each envelope: 7, 8, 13, 14, and 3.



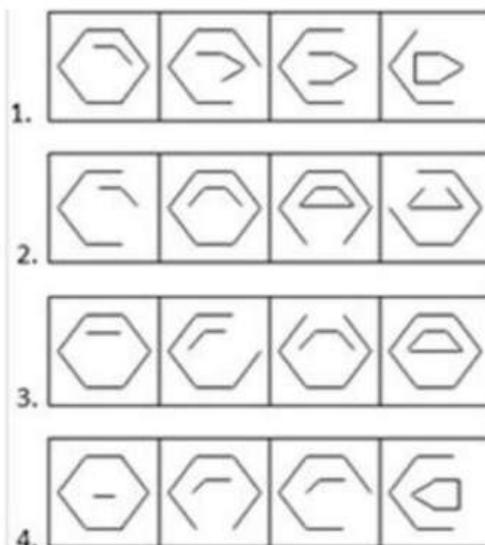
If the envelope **D** has card **8** and **6**
What cards should envelope **A** have?

(Provide answer for example as 8,6)

- **Correct Answer : 7,0**

Q.108 Which of the following series of figures follows the given rule? [Marks:2]

Rule: The closed figure loses its sides, and the open figure gains its sides as the series proceeds.



Options :

- 1
- 2
- 3
- 4

- **Correct Answer : A**

Q.109 Match the following

[Marks:2]

Options :

- a. Meenakshi temple
- b. Hawa Mahal
- c. Victoria Memorial
- d. Bara Imambara

- p. Lucknow
- q. Kolkata
- r. Madurai
- s. Jaipur

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

Q.110 Match the landmark statues with the place they are located at.

[Marks:2]

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

Options :



- p. New York, USA
- q. Rio de Janeiro, Brazil
- r. Kanyakumari, Tamil Nādu
- s. Kevadia, Gujarat

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

Q.111 The given image is the interior of St Mary's Cathedral, Tokyo designed by Kenzo Tange. [Marks:2]

Identity **four most appropriate architectural terms and building components** that best describe the project from the choices given below.

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



Options :

- a. Shell Roof
- b. Roof light
- c. Exposed Concrete
- d. Dais
- e. Granite cladding
- f. Parametric
- g. Stained Glass
- h. Pyramid
- i. Spirituality

- **Correct Answer :** A, B, C, D, G, H

Q.112 Nestled at the base of a hill, overlooking the Savannah, lies Tiébélé-an African village in Burkina Faso, first settled in the 15th Century. From the given image of this village, identity **four most appropriate architectural terms and building components** [Marks:2]

that best describe the Image from the choices given below. (Marks will be awarded only if all answers are right)



Options :

- a. Lippan art
- b. Organic
- c. Streets
- d. Geometric patterns
- e. Terraces
- f. Cluster
- g. Dwellings
- h. Adobe
- i. Brick structures

• **Correct Answer :** B, D, F, G, H

Q.113 The given image is that of the High Court building, Chandigarh designed by Ar. Le Corbusier. [Marks:2]
Corbusier.

Identify **four most 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 correct)



Options :

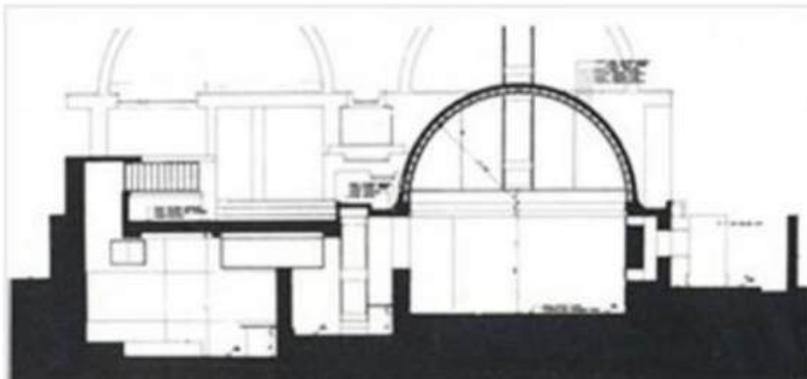
- a. Piers
- b. Organic
- c. Deep overhang
- d. Informal
- e. Shading devices
- f. Ellipsoid
- g. Exposed concrete
- h. Embellishment
- i. Modular

- **Correct Answer : A, C, E, G**

Q.114 The given image is a section of Sangath, Ahmedabad designed by Ar. B V Doshi. [Marks:2]

Identify **four appropriate architectural terms and building components** that can be best understood by reading the section from the choices given below.

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



Options :

- a. Rain water gutter
- b. columns
- c. Vault
- d. Dome
- e. Subterranean
- f. Grill
- g. Light shelf
- h. Geometric patterns
- i. Retaining wall

- **Correct Answer : A, C, E, G, I**

- Q.115** The given image of the Handmade School in Rudrapur, Bangladesh is a project by Anna Heringer Architecture which won an Aga Khan prize. [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. Vernacular
 - b. Terracotta
 - c. Framed construction
 - d. Minimalistic
 - e. Containers
 - f. Bamboo
 - g. Arcade
 - h. Adobe
 - i. Cladding
- **Correct Answer : A, D, F, H**

Paragraph:

Carefully observe the given image of an elevated pedestrian pathway with colorful street furniture and planters. 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 What is the predominant color of the street furniture?

[Marks:3]

Options :

- a. Yellow
- b. Blue
- c. Pink
- d. White

- **Correct Answer : A**

Q.117 What is the color of the bicycle pathway?

[Marks:3]

Options :

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

- **Correct Answer : B**

Paragraph:

Carefully observe the given image depicting animals and birds using tangram triangles. Each is depicted in a specific color scheme.

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 rabbits were there in the given image?

[Marks:3]



- **Correct Answer : 5**

Q.119 The flamingos were depicted in which of the following colors?

[Marks:3]

Options :

- a. Blue
- b. Orange
- c. Green
- d. Pink

- **Correct Answer : D**

Paragraph:

Carefully observe the given image depicting the interior of living room. The room has a large window and a wall which serves for display as well as TV. The furniture is minimal and formal.

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 is the colour of the curtains?

[Marks:3]

Options :

- a. Beige
- b. Blue
- c. Green
- d. White

• **Correct Answer : B**

Q.121 How many niches are there on the wall on the right which display artefacts?

[Marks:3]

• **Correct Answer : 3**

Paragraph:

Carefully observe the given image depicting teenagers giving a live performance on stage. 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 teenagers were wearing blue colored shirts/ T-shirts? [Marks:3]

- **Correct Answer : 2**

Q.123 How many girls were there in the picture? [Marks:3]

- **Correct Answer : 2**

Paragraph:

Carefully observe the given image which depicts an office interior. The office interior has attractive workstations with storage cabinets below and is brightened up by potted plants and good lighting arrangements.

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 How many drawers did each cabinet below the workstation table have? [Marks:3]

- **Correct Answer : 3**

Q.125 What is the color of the planter holders? [Marks:3]

Options :

- a. Red
- b. Steel grey
- c. White
- d. Black

- **Correct Answer : B**