

NATA 3 MORNING SESSION QUESTIONS

ANSWER KEY 2022

Q.1 In an Arithmetic Progression, if $a = 28$, $d = -4$, $n = 7$, then a_n is:

[Marks:1]

Options :

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

• Correct Answer : A

Q.2 If $O(p/3, 4)$ is the midpoint of the line segment joining the points $P(-6, 5)$ and $Q(-2, 3)$, the value of p is:

[Marks:1]

Options :

- a. $7/2$
- b. -12
- c. 12
- d. -4

• Correct Answer : B

Q.3 A shuttle cock used for playing badminton has the shape of the combination of

[Marks:1]

Options :

- a. a cylinder and a sphere
- b. a cylinder and a hemisphere
- c. a sphere and a cone
- d. frustum of a cone and a hemisphere

• Correct Answer : D

Q.4 A bag has 5 white marbles, 8 red marbles and 4 purple marbles. If we take a marble randomly, then what is the probability of not getting purple marble? [Marks:1]

Options :

- a. 0.5
- b. 0.66
- c. 0.08
- d. 0.77

• Correct Answer : D

Q.5 The class interval of a given observation is 10 to 15, then the class mark for this interval will be: [Marks:1]

Options :

- a. 11.5
- b. 12.5
- c. 12
- d. 14

• Correct Answer : B

Q.6 15% of the total number of biscuits in a jar is 30. What is the total number of biscuits in the jar? [Marks:1]

• Correct Answer : 200

Q.7 Find the area of a triangle whose vertices are (1, -1), (-4, 6) and (-3, -5). [Marks:1]
(Answer to be given in square units)

• Correct Answer : 24

Q.8 On the off chance that $a : b = 2 : 3$ and $b : c = 5 : 7$, what is $a : c$. [Marks:1]

• Correct Answer : 10:21

Q.9 The simple interest on a certain sum of money for $2\frac{1}{2}$ years at 12% per annum is Rs. 40 less than the simple interest on the same sum for $3\frac{1}{2}$ years at 10% per annum. Find the sum?
(Answer to be provided in Rs.) [Marks:1]

• Correct Answer : 800

Q.10 In a race of 600m, A can beat B by 60m and in a race of 500m, B can beat C by 50m. By how many meters will A beat C in a race of 400m? (Answer to be provided in m) [Marks:1]

• Correct Answer : 76

Q.11 Which of the following is the most precise device for measuring length? [Marks:1]

Options :

- a. A vernier calipers with 30 divisions on the sliding scale
- b. A screw gauge of pitch 1 mm and 100 divisions on the circular scale
- c. An optical instrument that can measure length to within a wavelength of light
- d. All instruments have same precision

Q.12 Fire rating of a Glass door is expressed in [Marks:1]

Options :

- a. Lux
- b. Kcal
- c. Watt
- d. Hour

Q.13 In which of the following examples of motion, can the body be considered approximately a point object. [Marks:1]

Options :

- a. A railway carriage moving without jerks between two stations.
- b. A monkey sitting on top of a man cycling smoothly on a straight track.
- c. A spinning cricket ball that turns sharply on hitting the ground.
- d. A tumbling beaker that has slipped off the edge of table.

Q.14 What happens when the light is refracted into a medium?

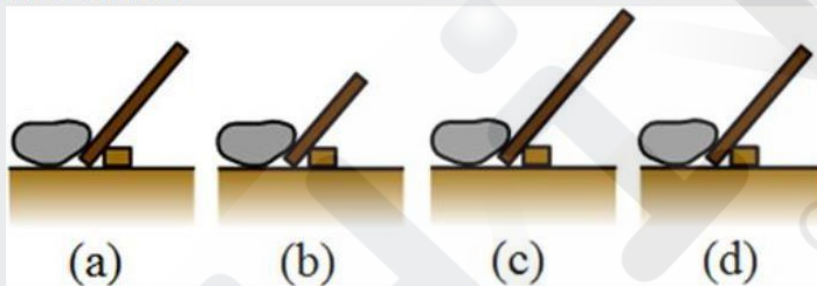
[Marks:1]

Options :

- a. its frequency and wavelength both increase
- b. its wavelength increases but frequency remains unchanged
- c. its wavelength and frequency both decrease
- d. its wavelength decreases but frequency remains unchanged

• Correct Answer : D

Q.15 Four levers of different lengths are used to move a rock. For which lever is it easiest to move the rock?



Options :

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

• Correct Answer : C

Q.16 A concrete slab weighing 100 pounds is placed on the ground. The slab is a rectangle with side lengths equal to 20 inches and 12 inches. What is the pressure on the ground due to the weight of the slab, in pounds/square-inch? (Answer to be rounded off to the third decimal)

[Marks:1]

• Correct Answer : 0.417

Q.17 A pump on the ground floor of a building can pump up water to fill a tank of volume 30 m^3 in 15 min. If the tank is 40 m above the ground, and the efficiency of the pump is 30%, how much electric power is consumed by the pump? (Answer to be provided in KW)

[Marks:1]

• Correct Answer : 44.4

Q.18 A metallic sphere of radius 4.2 cm is melted and recast into the shape of a cylinder [Marks:1]
of radius 6 cm. Find the height of the cylinder.

Options :

- a. 4.27cm
- b. 7.42 cm
- c. 2.74 cm
- d. 6.24 cm

• Correct Answer : C

Q.19 The perimeters of two similar triangles ΔABC and ΔPQR are 36cm and 24 cm. If [Marks:1]
 $PQ = 10\text{cm}$, Then $AB = ?$

Options :

- a. $20 / 3 \text{ cm}$
- b. $10 \sqrt{6/3} \text{ cm}$
- c. 15cm
- d. $200 / 3 \text{ cm}$

• Correct Answer : C

Q.20 The sum of all angles around a point on a plane is [Marks:1]

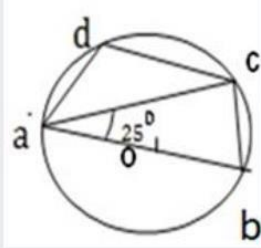
Options :

- a. 0°
- b. 90°
- c. 180°
- d. 360°

• Correct Answer : D

Q.21 In the given figure, AOB is a diameter of the circle and $CD \parallel AB$. If $\angle CAB = 25^\circ$, Then $\angle CAD = ?$

[Marks:1]



Options :

- a. 45°
- b. 40°
- c. 65°
- d. 115°

• Correct Answer : B

Q.22 An angle is one fifth of its supplement. The measure of the angle is

[Marks:1]

Options :

- a. 15°
- b. 30°
- c. 75°
- d. 150°

• Correct Answer : B

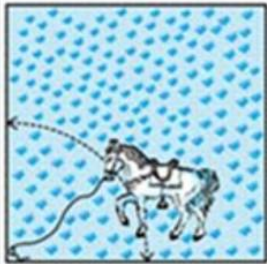
Q.23 The length of the minute hand of a clock is 14 cm. Find the area swept by the minute hand in 5 minutes
(Answer to be provided in cm^2 and rounded off to the second decimal)

[Marks:1]

• Correct Answer : 51.33 Or 51.3

Q.24 A horse is tied to a peg at one corner of a square shaped grass field of side 15 m by [Marks:1]
means of a 5 m long rope as shown in the figure. Find the area of that part of the
field in which the horse can graze. Use $\pi = 3.14$

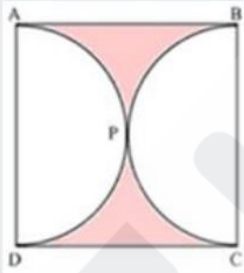
(Answer to be provided in m^2 and rounded off to the third decimal)



• Correct Answer : 19.625 or 19.63

Q.25 Find the area of the shaded region in the given figure, if ABCD is a square of side [Marks:1]
14cm and APD and BPC are semicircles. Use $\pi = 22/7$

(Answer to be provided in cm^2)



• Correct Answer : 42

Q.26 Select the incorrectly spelt word [Marks:1]

Options :

- a. Essence
- b. Tolarence
- c. Preference
- d. Insistence

• Correct Answer : B

Q.27 Select the most appropriate option to replace the word in *Italics* in the given sentence [Marks:1]

'One member *offered* a suggestion that all the other members accepted.'

Options :

- a. put out
- b. put forward
- c. put down
- d. put in

• Correct Answer : B

Q.28 Find the synonym of the underlined word in the given sentence [Marks:1]

'During the ten years he worked in Germany he accumulated a fortune.'

Options :

- a. expanded
- b. decreased
- c. made
- d. intensified

• Correct Answer : C

Q.29 Choose the word that gives the antonym of the word in Italics in the given sentence: [Marks:1]

'They invited him to *sumptuous* lunch.'

Options :

- a. cheap
- b. meagre
- c. dear
- d. nutritious

• Correct Answer : B

Q.30 Sahil read the letter _____ carefully the second time to make sure he hadn't [Marks:1]
missed any detail

Options :

- a. much
- b. many
- c. more
- d. most

• Correct Answer : C

Paragraph:

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

Did you know that bees are very important to humans? Honeybees do more than just make honey. They fly around and pollinate flowers, plants, and trees. Our fruits, nuts, and vegetables rely on these pollinators. One third of America's food supply is pollinated by the honeybee.

Have you seen or heard a honeybee lately? Bees are mysteriously disappearing in many parts of the world. Most people don't know about this problem. It is called "colony collapse disorder" (CCD). Some North American beekeepers lost 80% of their hives from 2006-2008. Bees in Italy and Australia are disappearing too.

The disappearance of the honeybee is a serious problem. Can you imagine never eating another blueberry? What about almonds and cherries? Without honeybees' food prices will skyrocket. The poorest people always suffer the worst when there is a lack of food.

This problem affects other foods besides fresh produce. Imagine losing your favourite ice cream! Haagen Daaz is a famous ice cream company. Many of their flavours rely on the hard-working honeybee. In 2008, Haagen Daaz began raising money for CCD. They also funded a garden at the University of California called The Haven. This garden helps raise awareness about the disappearing honeybee and teaches visitors how to plant for pollinators.

Donating money to research is the most important thing humans can do to save the honeybee. Scientists need money to investigate the causes of Colony Collapse Disorder. Some scientists blame CCD on climate change. Others think pesticides are killing the bees. Commercial bee migration may also cause CCD. Beekeepers transport their hives from place to place in order to pollinate plants year-round.

Q.31 According to the passage, honeybees pollinate _____ of America's food. [Marks:1]

Options :

- a. all
- b. quarter
- c. half
- d. one third

• Correct Answer : D

Q.32 The problem of honeybees disappearing is called

[Marks:1]

Options :

- a. colony collapse disorder
- b. colony cooperation disorder
- c. commercial colony disorder
- d. colony disappearing disorder

• Correct Answer : A

Q.33 What is the most important thing people can do to save the honeybee?

[Marks:1]

Options :

- a. eat less ice cream
- b. transport more beehives
- c. stall awareness
- d. donate to CCD research

• Correct Answer : D

Q.34 Hagen Daaz is worried about CCD because they flavour their ice creams with

[Marks:1]

Options :

- a. honeybees
- b. beekeepers
- c. fruits and nuts
- d. essence and sweeteners

• Correct Answer : C

Paragraph:

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

In spring 2008, the polar bear was placed on the endangered species list. According to the USA's Endangered Species Act, an endangered species is an animal, plant or any other kind of wildlife that is likely to face extinction in its natural habitat. Polar bears had already been categorized as a "threatened" species which the ESA defines as one that is likely to become "endangered" in the foreseeable future.

The polar bear's habitat is more vulnerable to global warming than many other species. Polar bears live mainly on the sea ice in the Arctic. This is where they hunt for fish and build up fat reserves. When the ice melts many polar bears move to land and live off their stored fat. In the Arctic, global warming is causing the ice to melt slightly earlier and form slightly later. This results in a shorter feeding season for the polar bear. Some risk their lives to find ice. If they have to swim too far, they will drown from exhaustion and hunger. The World Wildlife Fund estimates that over 25% of Arctic Sea ice has disappeared in the past 30 years.

It is not only the polar bear that is at risk in the Arctic. Every species of plant, animal, and insect there is threatened by global warming. Nevertheless, groups of concerned scientists and environmentalists such as the World Wildlife Fund often study large carnivores in order to assess the health of an ecosystem. The Arctic food chain relies on the polar bear. In addition, donations are more commonly offered for the protection of large animals such as bears or elephants. People in general are less interested in conservation efforts that protect small wildlife, such as plants or insects. However, by using donor money to protect the habitats of larger animals through reforestation and similar programs, entire ecosystems with many threatened or endangered species can be saved

Q.35 According to the passage, the endangered species is one that is

[Marks:1]

Options :

- a. already extinct
- b. dangerous
- c. in danger of extinction
- d. vulnerable to change

• Correct Answer : C

Q.36 What major change has occurred in the polar bear's natural habitat?

[Marks:1]

Options :

- a. colder air temperatures
- b. hunger and exhaustion
- c. disappearing sea ice
- d. water pollution

• Correct Answer : C

Q.37 What type of conservation efforts are people generally interested in?

[Marks:1]

Options :

- a. saving plants and insects
- b. protecting habitats of large animals
- c. protecting the food chain
- d. reforestation projects

• Correct Answer : B

Q.38 The World Wildlife Fund estimates that _____ of Artic ice has disappeared in the past 30 years [Marks:1]

Options :

- a. over 25 %
- b. over 20%
- c. about 10%
- d. under 25%

• Correct Answer : A

Paragraph:

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

Florence Nightingale was born on 12th May 1820 in Florence in Italy. Since her childhood her interest in nursing was evident. Then she would spend time nursing her injured dolls and animals Gradually she grew into a handsome young lady, and she could have married some excellent young man and enjoyed life.

But she remained unmarried and devoted her life to the nursing of the poor and sick people. When the Crimean war broke out between England and Russia. She went to the field with a number of nurses. There they nursed the sick and wounded soldiers. Florence Nightingale worked there without rest and many times she was nursing the poor ailing soldiers throughout the night with a candle in her hand. So, she was known everywhere as "The Lady with the Lamp". She gained the respect of the soldiers and medical establishment alike. Her accomplishments in providing care and reportedly reducing the mortality rate to about 2 percent brought her fame in England through the press and the soldiers' letters. She was the foundational philosopher of modern nursing.

Q.39 How was Florence Nightingales interest in nursing evident during childhood?

[Marks:1]

Options :

- a. by nursing injured dolls and animals
- b. by nursing family members
- c. by assisting her father
- d. by visiting hospitals with her mother

• Correct Answer : A

Q.40 Why did she remain unmarried?

[Marks:1]

Options :

- a. She found no eligible suitors
- b. She was devoted to the caring of the sick
- c. She wanted to enjoy life
- d. She was deeply attached to family

• Correct Answer : B

Q.41 What did she do when the Crimean War broke out?

[Marks:1]

Options :

- a. She went to fight in the war
- b. She led a team of like-minded persons to the war field
- c. She led a team of nurses to the war front
- d. She arranged for medical aid

• Correct Answer : C

Q.42 What was her legacy to the field of nursing?

[Marks:1]

Options :

- a. She laid the foundation to nursing hospitals
- b. She laid the foundation to a trust called 'Lady with the lamp"
- c. She became the foundational philosopher for modern nursing
- d. She became a beacon of hope and light

• Correct Answer : C

Paragraph:

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

In a small cottage in a Japanese village, there once lived an old man named Hagamuchi with his family. The cottage stood at the top of a low hill overlooking the sea. One day Hagamuchi was alone with his grandson. The rest of the family had gone to the town at the foot of the hill to make merry with their friends on a festival day.

Suddenly Hagamuchi thought that he noticed something unusual about the sea. The sea had been rough all day long, but now the water seemed lower than usual. At last, he saw in the distance, a great tide coming swiftly towards the land. He called to the people below of the impending danger, but they were so busy enjoying themselves that no one heard his voice. Suddenly a thought struck him. He set fire to the thatched roof of his own cottage. His purpose was served.

At once, the bell of the temple below the hill was rung. People left their merry-making and rushed up the hill. Within a few minutes, there came leaping a great roaring wave and it destroyed the whole town. Only the people who flocked to save the old man and his grandson from the fire were saved. These people felt so grateful to Hagamuchi that they built a temple to his memory.

Q.43 Who lived on top of a hill overlooking the sea?

[Marks:1]

Options :

- a. Hagamuchi
- b. Hagamuchi and his grandson
- c. Hagamuchi and his family
- d. Hagamuchi and his friends

• Correct Answer : C

Q.44 What natural event occurred that was a calamity to the Japanese village?

[Marks:1]

Options :

- a. tidal wave
- b. earthquake
- c. hurricane
- d. invasion

• Correct Answer : A

Q.45 What did Hagamuchi do to warn the people of the village?

[Marks:1]

Options :

- a. sent his grandson downhill to call them
- b. called them on the phone
- c. rang the temple bells
- d. set fire to his thatched cottage.

• Correct Answer : D

Q.46 How did the people of the village honor his memory?

[Marks:1]

Options :

- a. built a tombstone
- b. named the sea after Hagamuchi
- c. built a temple
- d. planted a forest

• Correct Answer : C

Paragraph:

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

Cardamom, the queen of all spices, has a history as old as the human race. It is the dried fruit of an herbaceous perennial plant. Warm humid climate, loamy soil rich in organic matter, distributed rainfall and special cultivation and processing methods all combine to make Indian cardamom truly unique in aroma, flavour, size and it has a parrot green colour.

Two types of cardamom are produced in India. The first type is the large one, which has not much significance as it is not traded. It is cultivated in north-eastern area of the country. The second type is produced in the southern states and these are traded in the market. These are mainly cultivated in Kerala, Tamil Nādu and Karnataka. As per the future market rules, only 7 mm quality was previously traded in exchanges. But later, it relaxed its norms and now 6 mm quality is also traded in the exchanges.

Cardamom is an expensive spice, second to saffron. Indian cardamom is known in two main varieties: Malabar cardamon and Mysore cardamom. The Mysore variety contains leaves of cineol, limonene and hence is more aromatic. India is the world's largest producer and exporter emerged as the leading producer and exporter of cardamom.

Kerala is the main producer of cardamom and contributes up to 60% in total production. Karnataka produces around 25% of the total production cardamom. Ooty is the main producer of cardamom in Tamil Nādu and contributes around 10-15% of the total production. Besides India, Guatemala also produces around 1,000-2,000-ton cardamom per year. Due to low quality of cardamom from Guatemala, it remains available at cheaper rates.

Q.47 What type of climate is best suited for cultivation of cardamom?

[Marks:1]

Options :

- a. Hot and dry
- b. Temperate
- c. Hot and humid
- d. Warm and humid

• Correct Answer : D

Q.48 Guatemala produces cardamom:

[Marks:1]

Options :

- a. More and good in quality
- b. Less but good in quality
- c. More and poor in quality
- d. Less but poor in quality

• Correct Answer : C

Q.49 What percentage of the total cardamom production in India comes from the State of Karnataka? [Marks:1]

Options :

- a. 10%
- b. 25%
- c. 15%
- d. 60%

• Correct Answer : B

Q.50 Which spice is dearer than cardamom?

[Marks:1]

Options :

- a. Cinnamon
- b. Clove
- c. Star anise
- d. Saffron

• Correct Answer : D

Q.51 The Victoria Memorial, Kolkata is clad with which material?

[Marks:2]



Options :

- a. Sandstone
- b. Brick
- c. Marble
- d. Limestone

• Correct Answer : C

Q.52 What is this window called?

[Marks:2]



Options :

- a. Dormer window
- b. Stained glass
- c. Bay window
- d. Rose window

• Correct Answer : D

Q.53 Wheel chair ramp slope required as per universal design is

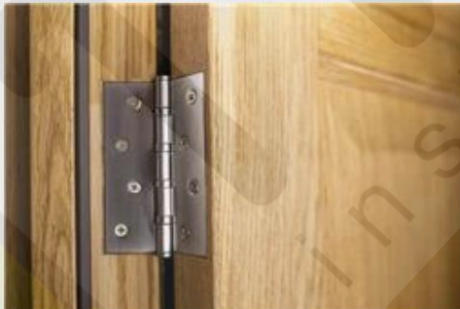
[Marks:2]

Options :

- a. 1: 8
- b. 1: 10
- c. 1:12
- d. 1: 6

• Correct Answer : C

Q.54 The hardware that enables the door to open and close as shown in the [Marks:2]
picture is a _____.



Options :

- a. hinge
- b. holdfast
- c. pivot
- d. knob

• Correct Answer : A

Q.55 Arrange from lowest (ground) to highest in terms of construction of a wall. [Marks:2]

- a. Plinth
- b. Roof
- c. Sill
- d. Lintel

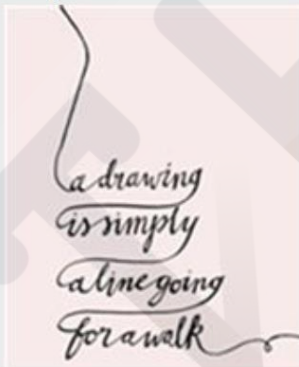
Options :

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

• Correct Answer : C

Q.56 Who quoted this?

[Marks:1]



Options :

- a. Paul Klee
- b. Pablo Picasso
- c. Van Gogh
- d. Rabindranath Tagore

• Correct Answer : A

Q.57 The Prime Minister of India who initiated the centrally sponsored scheme that provided all weather good connectivity to unconnected villages through *Pradhan Mantri Gram Sadak Yojana*? [Marks:1]

Options :

- a. Shri Manmohan Singh
- b. Shri Narendra Modi
- c. Shri Atal Bihari Vajpayee
- d. Shri Rajiv Gandhi

• Correct Answer : C

Q.58 This famous Mysuru Palace is also known as [Marks:1]



Options :

- a. Jagmohan Palace
- b. Amma Villa Palace
- c. Wadiyar Palace
- d. Amba Vilas Palace

• Correct Answer : D

Q.59 Which of the following ghats is the most sacred cremation ground for Hindus in Varanasi? [Marks:1]

Options :

- a. Assi Ghat
- b. Manikarnika Ghat
- c. Man mandir Ghat
- d. Dashashwamedha Ghat

• Correct Answer : B

Q.60 How many square meters of land are there in an Acre? [Marks:1]

Options :

- a. 5046.85 sq m
- b. 3567.58 sq m
- c. 4046.85 sq m
- d. 4098.58 sq m

• Correct Answer : C

Q.61 Who was the first Indian citizen to win the 'Booker Prize'? [Marks:1]

Options :

- a. Shashi Tharoor
- b. Geetanjali Shree
- c. Salman Rushdie
- d. Arundhati Roy

• Correct Answer : D

Q.62 Where is India's largest floating Solar Power Project?

[Marks:1]

Options :

- a. Ramagundam, Telangana
- b. Charanka, Gujarat
- c. Bhadla, Rajasthan
- d. Ramanathapuram, Tamil Nadu

• Correct Answer : A

Q.63 Based on the alphanumeric series:

[Marks:2]

T# ^ Q U P 1 i 7 E J & 2 9 A 3 Z N 4 * @ U 6 ? M

What is the total sum of numbers that are preceded by vowels?

Options :

- a. 10
- b. 14
- c. 16
- d. 18

• Correct Answer : C

Q.64 Which word does NOT belong with the others?

[Marks:2]

Options :

- a. Noun
- b. Punctuation
- c. Adverb
- d. Preposition

• Correct Answer : B

Q.65 Which set does the given block belong to?

[Marks:2]



Given block

A) SET 01

--	--	--

B) SET 02

--	--	--

C) SET 03

--	--	--

D) SET 04

--	--	--

Options :

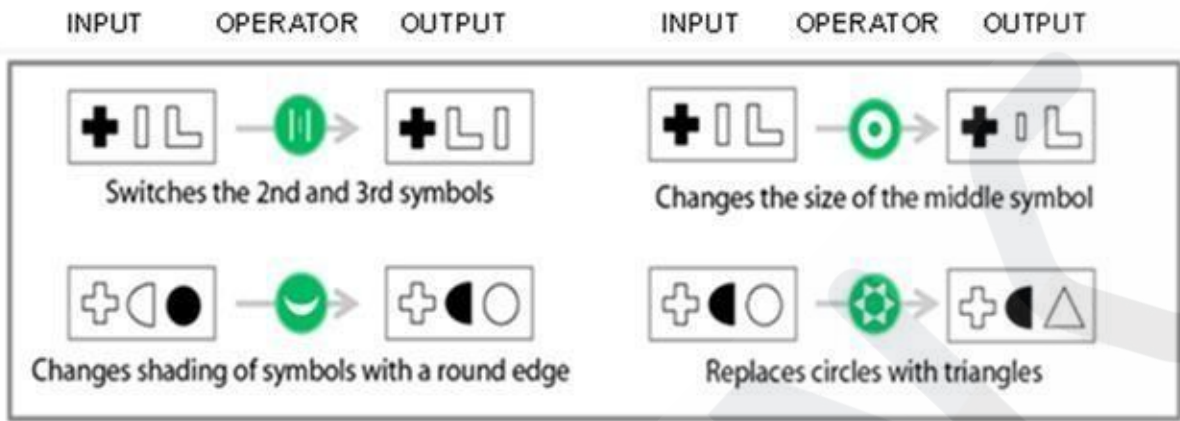
- a. Set 01
- b. Set 02
- c. Set 03
- d. Set 04

• Correct Answer : C

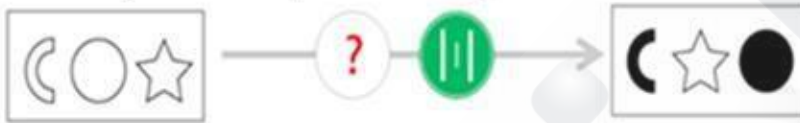
Q.66 The given question has an input and output diagram with various operators (green colour icons) changing the input parameters in the output. Go through the given diagram and answer the question.

[Marks:2]

Given diagram for the operators



Which operator replaces the question mark?



Answer options:



Options :

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

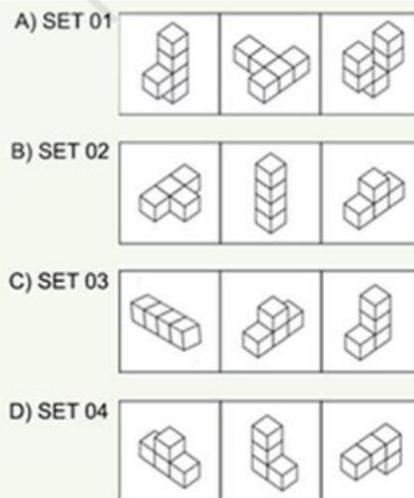
• Correct Answer : C

Q.67 Which set does the given block belong to?

[Marks:2]



Given block



Options :

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

• Correct Answer : A

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

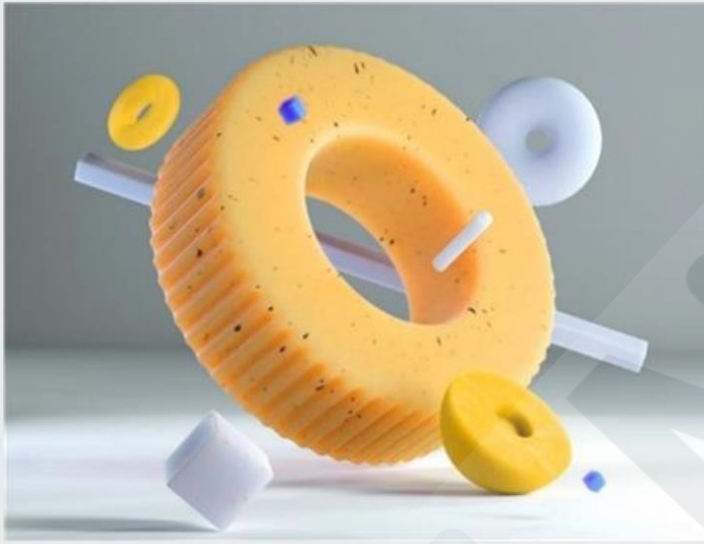


Options :

- a. Shape
- b. Colour
- c. Contrast
- d. Repetition
- e. Emphasis
- f. Value
- g. Texture
- h. Variety

• Correct Answer : A,C,D,H

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)



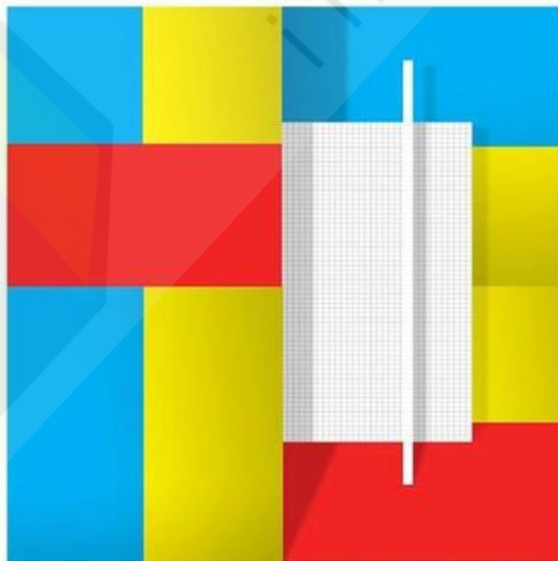
Options :

- a. Shape
- b. Form
- c. Unstable
- d. Space
- e. Contrast
- f. Dominance
- g. Emphasis
- h. Direction

• Correct Answer : B, C,D,F,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. Complementary
- b. Texture
- c. Triadic
- d. Space
- e. Movement
- f. Hue
- g. Direction
- h. Asymmetry

• Correct Answer : B,C,D,F,H

Q.71 Identify the place from the image given below

[Marks:2]



Options :

- a. Bedaghat
- b. Ajanta Caves
- c. Patan ni wav
- d. Kings' valley, Egypt

• Correct Answer : B

Q.72 Match the elements in Group 1 to their application in Group 2

[Marks:2]

Group 1	Group 2
P. Parapet	1. Floor
Q. Dado	2. Truss
R. Lintel	3. Terrace
S. Rafter	4. Bathroom
T. Skirting	5. Window

Options :

- a. P-3, Q-2, R-5, S-4, T- 1
- b. P-3, Q-4, R-2, S-1, T-5
- c. P-3, Q-4, R-5, S-2, T-1
- d. P-3, Q-5, R-1, S-2, T-4

• Correct Answer : C

Q.73 This bas-relief of Shiva and Parvati is located in

[Marks:2]



Options :

- a. Ajanta Caves
- b. Ellora Caves
- c. Karla Caves
- d. Elephanta Caves

• Correct Answer : B

Q.74 What is commonly observed type of architecture in the given images?

[Marks:2]



Stonehenge, England



Temple of Olympian Zeus, Greece

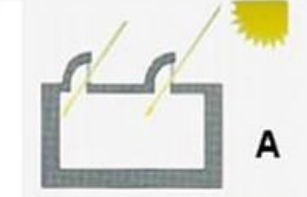



Options :

- a. post and lintel architecture
- b. rock cut architecture
- c. monolithic architecture
- d. arcuate architecture

• Correct Answer : A

Q.75 Match the following:

[Marks:2]

 <p>A</p>	<p>P. Atrium</p>
 <p>B</p>	<p>Q. Roof monitors</p>
 <p>C</p>	<p>R. Clerestory</p>
 <p>D</p>	<p>S. Light shelf</p>

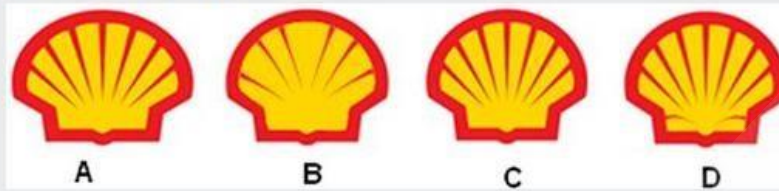
Options :

- a. A- R; B- S; C- P; D- Q
- b. A- R; B- Q; C- S; D- P
- c. A- R; B- S; C- Q; D- P
- d. A- Q; B- S; C- P; D- R

• Correct Answer : D

Q.76 Identify the correct logo.

[Marks:2]



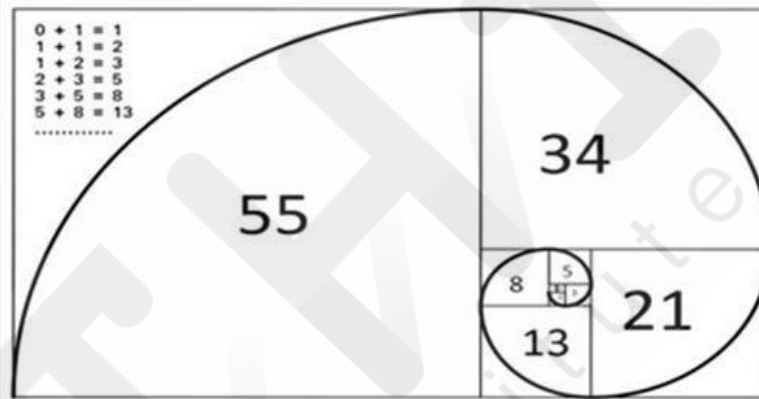
Options :

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

• Correct Answer : C

Q.77 Identify the series of proportions represented in the image given below.

[Marks:2]



Options :

- a. Catalan Series
- b. Magic square series
- c. Hexagonal numbers
- d. Fibonacci series

• Correct Answer : D

Q.78 Identify the sign

[Marks:2]



Options :

- a. Hot water
- b. Cooking range
- c. Stationary room
- d. Luggage room

• Correct Answer : C

Q.79 Choose the most appropriate set of emotions that can be associated with the following logos below.

[Marks:2]



Options :

- a. Trust, Security and wisdom
- b. Nature, Freshness and growth
- c. Intense, energetic and strength
- d. Friendly, cheerful and confidence

• Correct Answer : B

Q.80 Three of the given brand logos are from the same country. Identify the odd brand out. [Marks:2]



(A)



(B)



Audi

(C)



Nestlé

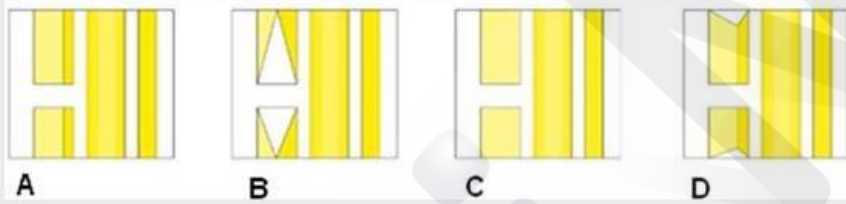
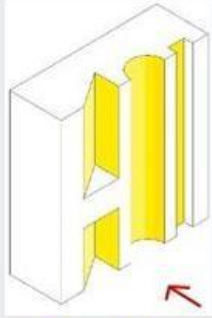
(D)

Options :

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

• Correct Answer : D

Q.81 Identify from the given options the correct FRONT view as indicated by the arrow [Marks:2]
for the given 3D volume

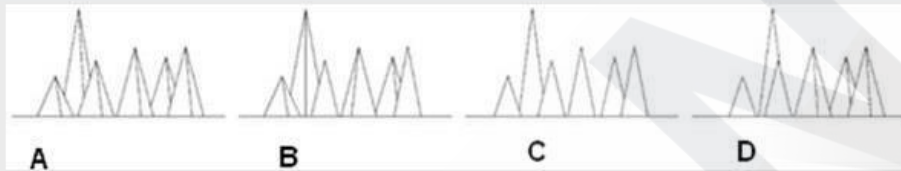
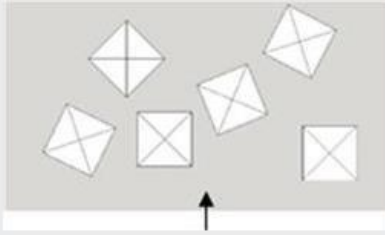


Options :

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

• Correct Answer : C

Q.82 Choose from among the options below, the correct front view as indicated by the [Marks:2]
arrow for the group of pyramids placed randomly on a plane.

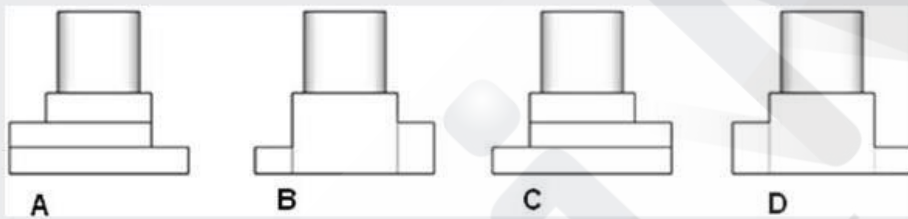
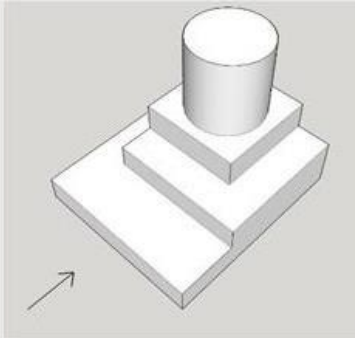


Options :

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

• Correct Answer : B

Q.83 Identify from the given options, the correct FRONT view as indicated by the arrow [Marks:2]
for the given 3D volume



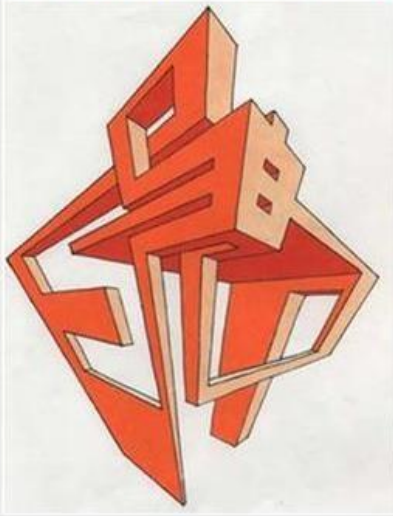
Options :

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

• Correct Answer : C

Q.84 Identify the number of vanishing points for the given image.

[Marks:2]



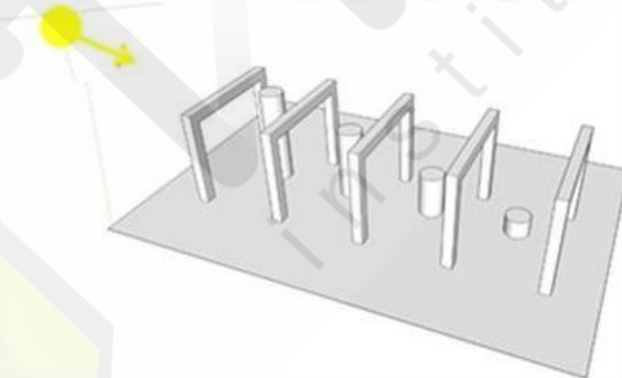
Options :

- a. One
- b. two
- c. three
- d. five

• Correct Answer : C

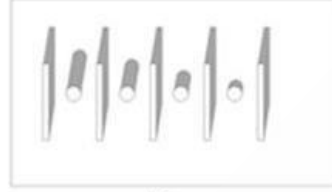
Q.85 If the arrow marks the direction of light, then what is the image of the object with correct shadow? Choose from the options given below.

[Marks:2]

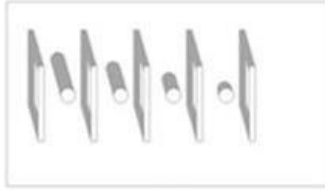




A



B



C



D

Options :

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

• Correct Answer : A

Q.86 What do we see after light has been sent through a prism?

[Marks:2]

Options :

- a. White light
- b. Color spectrum
- c. Shadows
- d. Color Wheel

• Correct Answer : B

Q.87 When the _____ of a colour is adjusted, the value also changes.

[Marks:2]

Options :

- a. Proportion
- b. Hue
- c. Intensity
- d. Shade

• Correct Answer : B or C or D

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

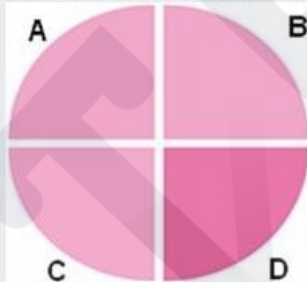


Options :

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

• Correct Answer : A

Q.89 Select the two identical shades of pink. [Marks:2]



Options :

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

• Correct Answer : B

Q.90 What words are used to describe color temperature?

[Marks:2]

Options :

- a. Light and Dark
- b. Hot and Cold
- c. Black and White
- d. Warm and Cool

• Correct Answer : D

Q.91 Match the elements/ principles of visual design with the appropriate application/ interpretation in architectural design

A.	Hierarchy	P.	Stable, grounded and solid
B.	Radial balance	Q.	Provides focus or highlights
C.	Emphasis	R.	Symbolism and imagery
D.	Rhythm	S.	Arrangement of elements to show their order of importance
E.	Symmetrical Balance	T.	Sense of movement, sequence or pattern
F.	Meaning	U.	Balance of elements through a central focal point

Options :

- a. A-S; B-Q; C-U; D-R; E-P; F-T
- b. A-Q; B-U; C-S; D-P; E-T; F-R
- c. A-S; B-U; C-Q; D-T; E-P; F-R;
- d. A-Q; B-U; C- S; D-R; E-P; F-T

• Correct Answer : C

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. Mass
- b. Balance
- c. Texture
- d. Structure
- e. Form
- f. Geometry

• Correct Answer : B,D,F,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 correct)



Options :

- a. Connection
- b. Contrast
- c. Direction
- d. Symbolism
- e. Frame
- f. Pattern
- g. Depth

• Correct Answer : A,C,E,G

Q.94 From among the choices given identify to which style these paintings belong.

[Marks:1]



Options :

- a. Tanjore painting
- b. Madhubani painting
- c. Kalamkari art painting
- d. Kalighat patachitra

• Correct Answer : D

Q.95 Which art category does the given painting belongs to?

[Marks:1]



Options :

- a. Pop art
- b. Photorealism
- c. Expressionism
- d. Surrealism

• Correct Answer : B

Q.96 Choose the correct answer.

[Marks:1]

“*The Disintegration of the Persistence of Memory*” is a painting by Artist _____ belonging to the Surrealist movement.

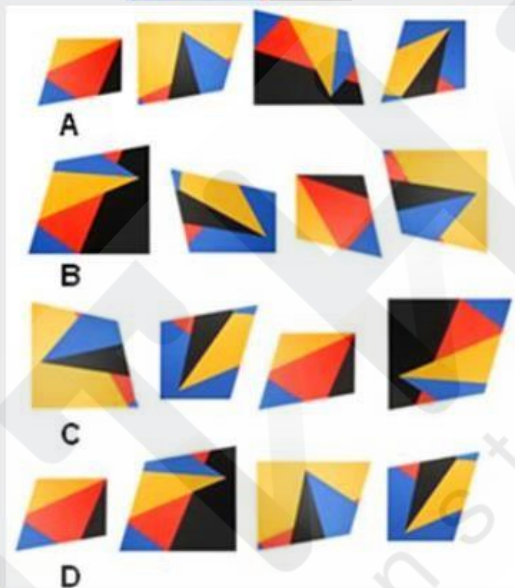


Options :

- a. Salvador Dali
- b. Pablo Picasso
- c. René Magritte
- d. Claude Monet

• Correct Answer : A

Q.97 Which set of parts among the given options would construct the given image? [Marks:2]

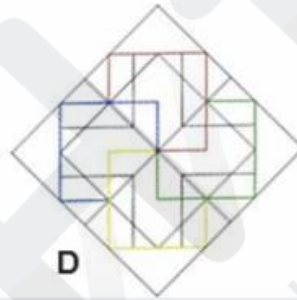
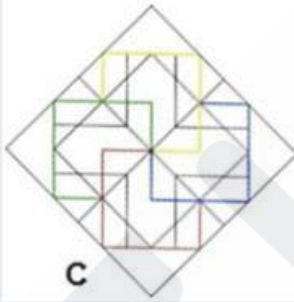
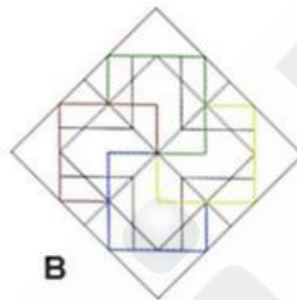
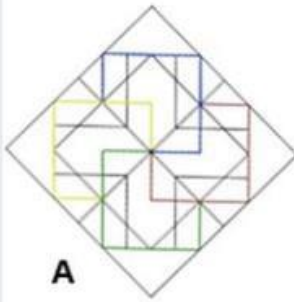


Options :

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

• Correct Answer : D

Q.98 How would the given image look when it is rotated by an angle of 45° about its Centre in a clockwise direction? [Marks:2]



Options :

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

• Correct Answer : C

Q.99 Visualize a rock garden.

[Marks:2]

**What amongst the following listed options would you see in the rock garden?
Choose any 4 most appropriate options.**

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

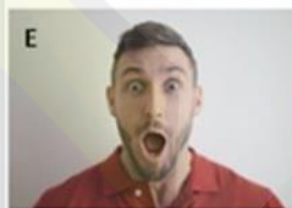
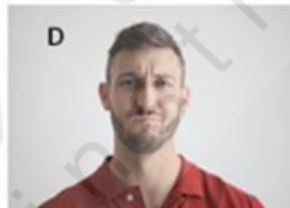
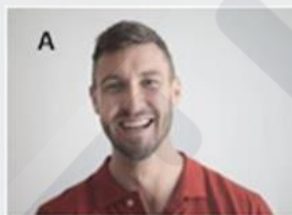
Options :

- a. cacti
- b. mango tree
- c. rose plants
- d. succulents
- e. rugged terrain
- f. petrified wood
- g. paver blocks
- h. coconut trees

• Correct Answer : A,D,E,F

Q.100 Match the expressions with the emotions conveyed.

[Marks:2]



1. Angry
2. Confused
3. Surprised
4. Scared
5. Bored
6. Happy

Options :

- a. A-6, B-5, C-4, D-2, E-3, F-1
- b. A-6, B-5, C-1, D-2, E-3, F-4
- c. A-6, B-1, C-2, D-5, E-3, F-1
- d. A-6, B-5, C-2, D-3, E-1, F-5

• Correct Answer : B

Q.101 A boat has a ladder that's 10 feet long, and hangs off the side of the boat, with its last three feet submerged in water. If the ocean tide rises five feet, how much of the ladder will be underwater? [Marks:2]

Options :

- a. 3 feet.
- b. 8 feet.
- c. 5 feet.
- d. 2 feet.

• Correct Answer : A

Q.102 A man is in a grocery store and fills a shopping cart with boxes. He walks out of the store without paying but no one stops him and no one calls the police. Why? [Marks:2]

Options :

- a. The man is a ghost and so he is invisible to other people.
- b. The cashier in the store does not have or use mobile phone or telephone.
- c. All the people in the store are visually impaired.
- d. The man is an employee of the store.

• Correct Answer : D

Q.103 A barber prefers to cut hair for two grey haired elder men than a young dark-haired man. Why? [Marks:2]

Options :

- a. The barber does not prefer youngsters.
- b. The barber is more respectable towards elders.
- c. The barber gets more money.
- d. The barber is colour blind.

• Correct Answer : C

Q.104 A man is condemned to death. He has to choose from among the rooms in the given options to accept his punishment. Which room would he choose? [Marks:2]

Options :

- a. Room that has a firing squad with guns loaded
- b. A room that has a blazing fire
- c. A room full of tigers that haven't eaten for six months
- d. A room with a hangman

• Correct Answer : C

Q.105 Rita told Mani, "*The girl I met yesterday at the beach was the youngest daughter of the brother-in-law of my friend's mother*". How is the girl related to Rita's friend? [Marks:2]

Options :

- a. Cousin
- b. Daughter
- c. Niece
- d. Friend

• Correct Answer : A

Q.106 **DIRECTIONS for the question:** The question below is followed by two statements marked I and II. Mark your answer from the options given below [Marks:2]

How many tons of cement will be needed for the foundation of a flat?

- I. For construction of entire flat 50 tons of cement will be used.
- II. The volume of the cement needed for the foundation is 100 cubic yards.

Options :

- a. if statement I alone is sufficient to provide the answer
- b. if statement II alone is sufficient to provide the answer
- c. if both statements are required to provide the answer
- d. if neither statement I nor II is sufficient to provide the answer

• Correct Answer : D

Q.107 What is the optimum reverberation time for speech?

[Marks:2]

Options :

- a. 0.4- 0.5 s
- b. 0.6- 0.8 s
- c. 1.2- 1.5 s
- d. 0.8- 0.9 s

• Correct Answer : A

Q.108 Sanjana is going to laze by the beach one mild summer afternoon. What would be required to make herself comfortable? [Marks:2]

Choose any four most appropriate items from amongst the options given. (Marks will be awarded only if all answers are right)

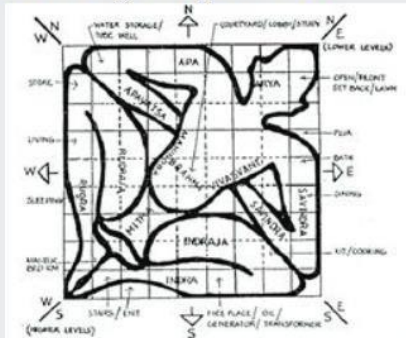
Options :

- a. Large parasol
- b. Surf board
- c. Book
- d. Blazer
- e. Sneakers
- f. Volleyball
- g. Beach lounge chair
- h. Can of fruit juice

• Correct Answer : A,C,G,H

Q.109 What is the given figure called?

[Marks:2]



Options :

- a. Vastu griha
- b. Mayamatam
- c. Vastu Devata
- d. Vastu Purusha mandala

• Correct Answer : D

Q.110 A rhythmic pattern is generated by

[Marks:2]

Options :

- a. Symmetrically arranging an element along an axis
- b. A single element repeatedly used in a linear fashion
- c. A set of elements repeatedly used in a given space at regular intervals
- d. A set of elements randomly used

• Correct Answer : C

Q.111 The given image is of the Peace Bridge, Calgary, Canada designed by Santiago Calatrava. It has colors representing the flag of Calgary and flag of Canada and has a low ecological footprint. [Marks:2]

Identify any **four** most appropriate architectural terms / expressions that best describes the structure from the choices given below. (Marks will be awarded only if all answers are correct)



Options :

- a. Piers
- b. Tubular steel
- c. Concrete arches
- d. Glass roof
- e. Stone slab
- f. Helical
- g. Suspended
- h. Symbolic

• Correct Answer : B,D,F,H

Q.112 The given image is of the Vitra Fire Station designed by Zaha Hadid in 1993.

[Marks:2]

Identify **four** most appropriate architectural terms / expressions and building components that best describe the architecture from the choices given below.

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



Options :

- a. Tilted planes
- b. Movement
- c. Symmetrical balance
- d. Cantilever
- e. Glass wall
- f. Cluster of metal columns
- g. Stone structure
- h. Geometric canopy

• Correct Answer : A,B,D,F,H

Q.113 The given image is that of the Serpentine Gallery Pavilion, Kensington Gardens, UK, designed by Architect Toyo Ito with Cecil Balmond in 2002. [Marks:2]

Identify **four** appropriate architectural terms / expressions 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. Cafe
- b. Trapezoidal
- c. Art gallery
- d. Solids and voids
- e. Aluminum and glass
- f. Instability
- g. Laminates and glass
- h. Geometric concept

• Correct Answer : B,D,E,H

Q.114 The given image is that of a traditional dwelling in an Asian country.

[Marks:2]

Identify **four** appropriate architectural terms / expressions 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. Japanese
- b. Maximalism
- c. Modular
- d. Light weight panels
- e. Glass panels
- f. Wooden frames
- g. Taiwanese
- h. Extravagant

• Correct Answer : A,C,D,F

Q.115 The given image is of “The Champalimaud Centre for the Unknown” designed by [Marks:2] Ar. Charles Correa. It is located in the historic riverside area of Belém, in Lisbon, Portugal.

Identify **four** most appropriate architectural terms / expressions 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. Cable trays
- b. Stone cladding
- c. Grid slab
- d. Curvilinear forms
- e. Steel bridge
- f. Geometric shapes
- g. Portholes
- h. Vista

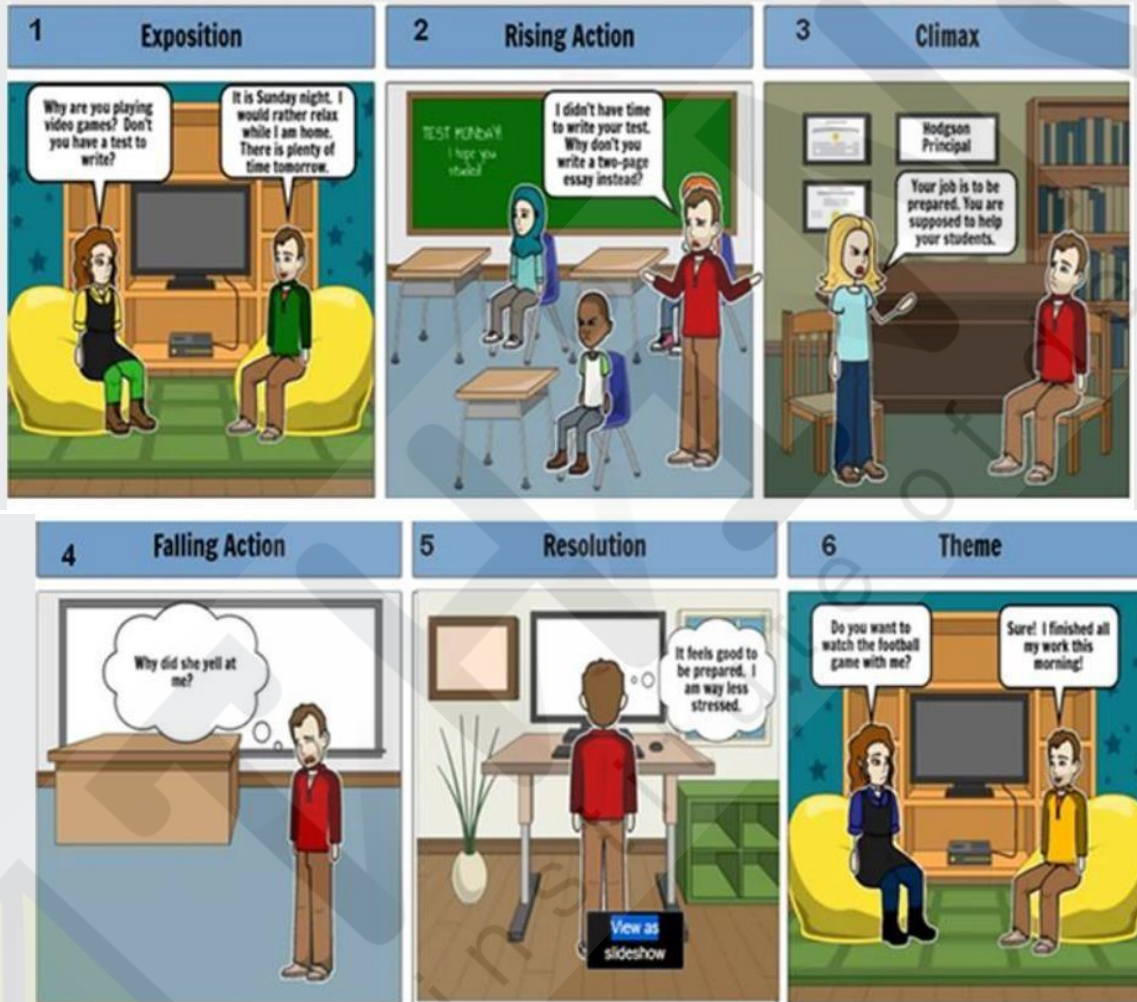
• Correct Answer : B,D,F,H

Paragraph:

Carefully observe the given image which is a storyboard in six frames. While the storyline by itself is not important there are other details that are worth noting.

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 was the sequence of the frames in the storyboard?

[Marks:3]

Options :

- Theme; Exposition; Rising action; Falling action; Resolution; Climax
- Exposition; Rising action; Climax; Falling action; Resolution; Theme
- Exposition; Falling action; Rising action; Resolution; Theme; Climax
- Theme; Exposition; Rising action; Climax; Falling Action; Resolution

• Correct Answer : B

Q.117 In which of the frames is the setting similar?

[Marks:3]

Options :

- a. 1 and 3
- b. 4 and 5
- c. 1 and 6
- d. 3 and 6

• Correct Answer : C

Paragraph:

Carefully observe the given image depicting a checkerboard of pictures from nature.

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 images of the logarithmic spiral in nature did you see in the checkerboard?

[Marks:3]

• Correct Answer : 4

Q.119 There was one animal image in the checkerboard. What animal was this?

[Marks:3]

Options :

- a. tiger
- b. panther
- c. hyena
- d. leopard

• Correct Answer : D

Paragraph:

Carefully observe the given artwork depicting faces.

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 faces coloured in leaf green were facing to the right?

[Marks:3]

• Correct Answer : 0

Q.121 How many faces were painted with red colour?

[Marks:3]

Options :

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

• Correct Answer : A

Paragraph:

Carefully observe the given image of an artwork depicting bird feeding in a park.

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 birds were seen flying in the artwork?

[Marks:3]

- Correct Answer : 3

Q.123 How many persons were sitting on the park bench?

[Marks:3]

- Correct Answer : 3

Paragraph:

Carefully observe the given Map.

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.

WORLD CONTINENTS



Q.124 Which two continent images do not have the correct geographical positions in the given map? [Marks:3]

Options :

- a. North America and South America
- b. Australia and Antarctica
- c. Antarctica and South America
- d. Africa and South America

• Correct Answer : D

Q.125 In the given map name the continents that are represented in primary colors. [Marks:3]

Options :

- a. Africa, Australia and South America
- b. North America, South America and Antarctica
- c. Africa, South America and Antarctica
- d. Asia, Africa and Antarctica

• Correct Answer : C