

2023 NATA 3rd Attempt Shift 1

S No.1			
Item Code	Question Type	Ans Key	Marks
6116001	MCQ	C	1

Which of the following equations has 2 as a root?

- A. $x^2 - 4x + 5 = 0$
- B. $x^2 + 3x - 12 = 0$
- C. $2x^2 - 7x + 6 = 0$
- D. $3x^2 - 6x - 2 = 0$

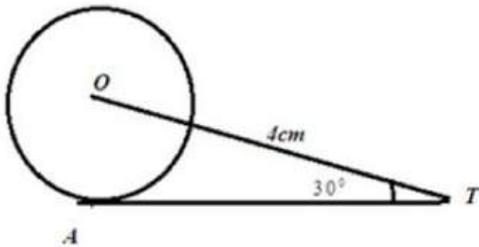
S No.2			
Item Code	Question Type	Ans Key	Marks
6116002	MCQ	C	1

If two positive integers p and q can be expressed as $p = ab^2$ and $q = a^3b$; a, b being prime numbers, then what is LCM of (p, q) ?

- A. ab
- B. a^2b^2
- C. a^3b^2
- D. a^3b^3

S No.3			
Item Code	Question Type	Ans Key	Marks
6116003	MCQ	C	1

In the following figure, AT is a tangent to the circle with center O such that $OT = 4$ cm and $\angle OTA = 30^\circ$. Then, what is AT equal to?



- A. 4 cm
- B. 2 cm
- C. $2\sqrt{3}$ cm
- D. $4\sqrt{3}$ cm

S No.4

Item Code	Question Type	Ans Key	Marks
6116004	MCQ	B	1

A solid cylinder of radius r and height h is placed over other cylinder of same height and radius. The total surface area of the shape so formed is

- A. $4\pi rh - 4\pi r^2$
- B. $4\pi rh + 2\pi r^2$
- C. $4\pi rh - 2\pi r^2$
- D. $4\pi rh + 4\pi r^2$

S No.5

Item Code	Question Type	Ans Key	Marks
6116005	MCQ	C	1

Rohini had scored 10 more marks in her mathematics test out of 30 marks, 9 times these marks would have been the square of her actual marks. How many marks did she get in the test?

- A. 14
- B. 16
- C. 15
- D. 18

S No.6			
Item Code	Question Type	Ans Key	Marks
6116006	NAT	3	1
D and E are the midpoints of side AB and AC of a triangle ABC, respectively and BC = 6 cm. If DE \parallel BC, then what is the length (in cm) of DE?			

S No.7			
Item Code	Question Type	Ans Key	Marks
6116007	NAT	18	1
If triangles ABC and DEF are similar and AB=4 cm, DE=6 cm, EF=9 cm and FD=12 cm, then what is perimeter (in cm) of triangle ABC?			

S No.8			
Item Code	Question Type	Ans Key	Marks
6116008	NAT	40	1
An amount of Rs. 10,000 becomes Rs. 20,736 in 2 years. If the rate of interest is compounded half yearly, what is the annual rate of interest (in %)?			

S No.9			
Item Code	Question Type	Ans Key	Marks
6116009	NAT	7200	1
The monthly income and monthly expenditure ratio of A and B are 5:6 and 3: 4 respectively. If both of them can have Rs.1800 and Rs.1600 as monthly savings respectively, then what is the monthly income (in Rs.) of B?			

S No.10			
Item Code	Question Type	Ans Key	Marks
6116010	NAT	7000	1
A hall, 20 m long and 15 m broad, is surrounded by a verandah of uniform width of 2.5 m. What will be the cost of flooring (in Rs) the verandah at Rs. 35/- per square metre?			

S No.11			
Item Code	Question Type	Ans Key	Marks
6126011	MCQ	D	1
Heat cannot by itself flow from a body at a lower temperature to a body at a higher temperature is a statement as a consequence of which of the following?			
<p>A. Conservation of mass</p> <p>B. Conservation of momentum</p> <p>C. First law of thermodynamics</p> <p>D. Second law of thermodynamics</p>			

S No.12

Item Code	Question Type	Ans Key	Marks
6126012	MCQ	B	1

The focal length of convex and the concave lens in contact is 30cm and 20cm, respectively. What is the focal length of the combination of the convex lens and the concave lens?

- A. -50cm
- B. -60cm
- C. 10cm
- D. 60cm

S No.13

Item Code	Question Type	Ans Key	Marks
6126013	MCQ	B	1

Energy involved in creating work _____.

- A. gets used up
- B. gets transferred
- C. gets exhausted
- D. gets lost

S No.14

Item Code	Question Type	Ans Key	Marks
6126014	MCQ	D	1

The space waves that are seriously affected by the atmospheric conditions are known as:

- A. VHF
- B. HUF
- C. MF
- D. UHF

S No.15

Item Code	Question Type	Ans Key	Marks
6126015	NAT	Bonus to all those who attempted	1

When an object is placed between f and $2f$ of a concave mirror, what would the image formed be?

- A. virtual and magnified
- B. real and diminished
- C. virtual and diminished
- D. real and magnified

S No.16

Item Code	Question Type	Ans Key	Marks
6126016	NAT	775	1

How fast (in m/s) would a 1 kg bowling ball travel if it had the same kinetic energy as that of the elephant provided the mass of the elephant is 6000 kg and velocity given is 10 m/s?

S No.17

Item Code	Question Type	Ans Key	Marks
6126017	NAT	0	1

A cricket ball having 7 kg of mass which is moving with a velocity of 20 m/s covers a height of 8.75 m vertically. Calculate the work done in J? Assume $g = 10 \text{ m/s}^2$.

S No.18

Item Code	Question Type	Ans Key	Marks
6136018	MCQ	A	1

Which of the following statements is/ are correct?

- I. If the lengths of two-line segments are equal, then the line segments are said to be congruent.
 - II. Two angles are congruent if their measures are equal. Thus, two congruent angles have equal measures
- A.** Both I and II
B. Neither I or II
C. Only II
D. Only I

S No.19

Item Code	Question Type	Ans Key	Marks
6136019	MCQ	C	1

Which of the following figures follows Euclid's fourth postulate always?

- A.** Trapezium
B. Parallelogram
C. Square
D. None of these

S No.20

Item Code	Question Type	Ans Key	Marks
6136020	MCQ	B	1

The radius of two circles is 3 cm and 4 cm. The distance between the circles is 10 cm. What is the ratio of length of direct common tangent to the length of the transverse common tangent?

- A.** $\sqrt{51} : \sqrt{68}$
B. $\sqrt{33} : \sqrt{17}$
C. $\sqrt{66} : \sqrt{51}$
D. $\sqrt{28} : \sqrt{17}$

S No.21

Item Code	Question Type	Ans Key	Marks
6136021	MCQ	B	1

Two circles touch each other externally at point X. PQ is a simple common tangent to both circles touching the circles at point P and point Q. If the radii of the circles are R and r, then find PQ^2 .

- A. $3\pi Rr/2$
- B. $4Rr$
- C. $2\pi Rr$
- D. $2Rr$

S No.22

Item Code	Question Type	Ans Key	Marks
6136022	NAT	10	1

What is the area of the triangle (**in sq. units**) whose vertices are given by the coordinates (1, 2), (-4, -3) and (4, 1)?

S No.22

Item Code	Question Type	Ans Key	Marks
6136022	NAT	10	1

What is the area of the triangle (**in sq. units**) whose vertices are given by the coordinates (1, 2), (-4, -3) and (4, 1)?

S No.23

Item Code	Question Type	Ans Key	Marks
6136023	NAT	11	1

If the sum of the measure of the interior angles of a polygon is 1620° , what number of sides does the polygon have?

S No.24

Item Code	Question Type	Ans Key	Marks
6136024	NAT	40	1

What is the complementary angle (in degrees) of supplementary angle of 130° ?

S No.25

Item Code	Question Type	Ans Key	Marks
6136025	NAT	8	1

At one end A of a diameter AB of a circle of radius 5 cm, tangent XAY is drawn to the circle. What is the length of the chord CD (**in cm**) parallel to XY and at a distance 8 cm from A?

S No.26			
Item Code	Question Type	Ans Key	Marks
6146026	MCQ	C	1
<p>In the following sentences, there are two blanks. Find out the appropriate words for filling up the blanks.</p> <p>' _____ the new government may formulate some policies within the 12 to 18-month horizon of this outlook, it will take _____ to see an impact on the real economy'.</p> <p>A. However, longer B. Meanwhile, longest C. Although, longer D. Though, no time</p>			

S No.27			
Item Code	Question Type	Ans Key	Marks
6146027	MCQ	B	1
<p>What is a Life history of a person written by another person called?</p> <p>A. a memoir B. a biography C. an autobiography D. a bibliography</p>			

S No.28			
Item Code	Question Type	Ans Key	Marks
6146028	MCQ	D	1
<p>Fill in the blank with the correct option:</p> <p>The song in the play cannot be deleted as it is _____ to the story.</p> <p>A. intended B. innate C. exacting D. integral</p>			

S No.29			
Item Code	Question Type	Ans Key	Marks
6146029	MCQ	C	1
<p>Find the word that can replace the underlined word in the sentence given below such that the meaning of the sentence does not change.</p> <p>"The student was expelled from the university due to his <u>flagrant</u> violation of the rules and regulations."</p> <p>A. conspicuous B. secretive C. blatant D. obvious</p>			

S No.30			
Item Code	Question Type	Ans Key	Marks
6146030	MCQ	D	1
<p>In this question, the first and sixth sentences of a passage are already provided (S1 and S6). The middle four sentences have been removed and shuffled up; they are labelled P, Q, R and S. Rearrange these four sentences in the correct order from the options given below:</p> <p>S1: The dog barked loudly, waking up everyone in the house. P: The dog wagged its tail, happy to have done its job of alerting its family to a possible threat. Q: The owner scolded the dog, telling him to be quiet R: The cat hissed and ran away to hide under the bed. S: The owner checked outside and found that there was nothing to worry about. S6: Eventually, everyone went back to sleep, but the dog stayed awake, watching over its family.</p> <p>A. PQRS B. RPSQ C. RSPQ D. RQPS</p>			

S No.31

Item Code	Question Type	Ans Key	Marks
6156031	MCQ	D	1

After reading the given TEXT answer the **4 questions** based on the text by choosing the appropriate option.

TEXT

Occasionally during the night, one can see meteors. They resemble streaks of light and for this reason, are called falling stars. As meteors travel through space, they sometimes fall into the Earth's gravitational pull and the friction between these rocks and the atmosphere causes most of them to burn up before they reach the surface of the Earth. At times, however, very big pieces of meteors fall to Earth and although they are burned up to a large extent, some pieces do reach the surface. These are then called meteorites. The largest meteorite to have been found is the Hoba meteorite. It was found in Namibia and weighs 60 tons.

The Earth's atmosphere _____.

- A. attracts the large falling stars to the Earth
- B. prevents most meteors from falling into the Earth's gravitational pull
- C. and the friction it causes prevent many meteors from becoming meteorites
- D. has many meteors in it but we cannot see them.

S No.32

Item Code	Question Type	Ans Key	Marks
6156032	MCQ	A	1

After reading the given TEXT answer the **4 questions** based on the text by choosing the appropriate option.

TEXT

Occasionally during the night, one can see meteors. They resemble streaks of light and for this reason, are called falling stars. As meteors travel through space, they sometimes fall into the Earth's gravitational pull and the friction between these rocks and the atmosphere causes most of them to burn up before they reach the surface of the Earth. At times, however, very big pieces of meteors fall to Earth and although they are burned up to a large extent, some pieces do reach the surface. These are then called meteorites. The largest meteorite to have been found is the Hoba meteorite. It was found in Namibia and weighs 60 tons.

Meteors that hit the Earth _____.

- A. are known as meteorites
- B. are called falling stars
- C. burn up due to friction
- D. will land in Namibia

S No.33

Item Code	Question Type	Ans Key	Marks
6156033	MCQ	C	1

After reading the given TEXT answer the **4 questions** based on the text by choosing the appropriate option.

TEXT

Occasionally during the night, one can see meteors. They resemble streaks of light and for this reason, are called falling stars. As meteors travel through space, they sometimes fall into the Earth's gravitational pull and the friction between these rocks and the atmosphere causes most of them to burn up before they reach the surface of the Earth. At times, however, very big pieces of meteors fall to Earth and although they are burned up to a large extent, some pieces do reach the surface. These are then called meteorites. The largest meteorite to have been found is the Hoba meteorite. It was found in Namibia and weighs 60 tons.

Meteors are _____.

- A. huge stars that travel in space
- B. always present in Namibia
- C. very large pieces of stones
- D. always in their travel in our atmosphere

S No.34

Item Code	Question Type	Ans Key	Marks
6156034	MCQ	B	1

After reading the given TEXT answer the **4 questions** based on the text by choosing the appropriate option.

TEXT

Occasionally during the night, one can see meteors. They resemble streaks of light and for this reason, are called falling stars. As meteors travel through space, they sometimes fall into the Earth's gravitational pull and the friction between these rocks and the atmosphere causes most of them to burn up before they reach the surface of the Earth. At times, however, very big pieces of meteors fall to Earth and although they are burned up to a large extent, some pieces do reach the surface. These are then called meteorites. The largest meteorite to have been found is the Hoba meteorite. It was found in Namibia and weighs 60 tons.

Which word in the passage means 'ray'?

- A. travel
- B. streak
- C. extent
- D. friction

S No.35

Item Code	Question Type	Ans Key	Marks
6156035	MCQ	A	1

After reading the given TEXT answer the **4 questions** based on the text by choosing the appropriate option.

TEXT

Sumo wrestling is an extremely popular sport in Japan. The Sumo champions are extremely large men who are not only tall but also weigh 130 kilograms or more. The reason that these wrestlers are so big is that the object of the game is for one wrestler to either throw his opponent out of the ring or to force him to the ground. The larger a wrestler is, the greater his chances of winning a fight. These matches are usually very short, most lasting less than one minute.

Sumo wrestlers are extremely large _____.

- A. because they must use their bodies against their opponents
- B. due to their great strength
- C. because this is a Japanese sport
- D. so that they can object to their opponents

S No.36

Item Code	Question Type	Ans Key	Marks
6156036	MCQ	C	1

After reading the given TEXT answer the **4 questions** based on the text by choosing the appropriate option.

TEXT

Sumo wrestling is an extremely popular sport in Japan. The Sumo champions are extremely large men who are not only tall but also weigh 130 kilograms or more. The reason that these wrestlers are so big is that the object of the game is for one wrestler to either throw his opponent out of the ring or to force him to the ground. The larger a wrestler is, the greater his chances of winning a fight. These matches are usually very short, most lasting less than one minute.

The length of these matches _____.

- A. goes on until the bell rings
- B. is about 130 kilograms
- C. generally, lasts under a minute
- D. is very long

S No.37

Item Code	Question Type	Ans Key	Marks
6156037	MCQ	D	1

After reading the given TEXT answer the **4 questions** based on the text by choosing the appropriate option.

TEXT

Sumo wrestling is an extremely popular sport in Japan. The Sumo champions are extremely large men who are not only tall but also weigh 130 kilograms or more. The reason that these wrestlers are so big is that the object of the game is for one wrestler to either throw his opponent out of the ring or to force him to the ground. The larger a wrestler is, the greater his chances of winning a fight. These matches are usually very short, most lasting less than one minute.

To win the match _____.

- A. one opponent must leave the ring
- B. one large wrestler must give up his ground
- C. the weight of the larger wrestler must be more than 130 kilos
- D. one wrestler must prove his strength against the other

S No.38

Item Code	Question Type	Ans Key	Marks
6156038	MCQ	A	1

After reading the given TEXT answer the **4 questions** based on the text by choosing the appropriate option.

TEXT

Sumo wrestling is an extremely popular sport in Japan. The Sumo champions are extremely large men who are not only tall but also weigh 130 kilograms or more. The reason that these wrestlers are so big is that the object of the game is for one wrestler to either throw his opponent out of the ring or to force him to the ground. The larger a wrestler is, the greater his chances of winning a fight. These matches are usually very short, most lasting less than one minute.

In which of the following situations other than that used in the passage is the phrase *'to the ground'* used?

- A. Fire
- B. Shipwreck
- C. Battle
- D. Land holding

S No.39

Item Code	Question Type	Ans Key	Marks
6156039	MCQ	B	1

After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.

TEXT

When Thomas was fifteen, he was a very intelligent and generous boy. He spent his day only reading, eating, and sleeping. Other than that, he didn't do anything. When the teachers of his class asked him any question, he would answer it immediately.

He always kept himself away from social activities; but once when he was going to his school, he saw a very old man begging on the roadside.

At first, he thought that he should stop there and ask him why he was begging because he was too old to do that, and instead, he should rest. At the same time, he realized that if he stopped there to speak to the old man, he would be late for school.

He thought for a while and went to the old man. He saw that everyone was passing by him but no one was giving him alms. After seeing the incident, he took out twenty rupees from his pocket and gave it to the beggar. By doing that, he felt very good and reached the school gasping.

How did Thomas usually spend his day?

- A.** Only doing social activities
- B.** Only reading, eating, and sleeping
- C.** Only eating and sleeping
- D.** None of the above

S No.40

Item Code	Question Type	Ans Key	Marks
6156040	MCQ	A	1

After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.

TEXT

When Thomas was fifteen, he was a very intelligent and generous boy. He spent his day only reading, eating, and sleeping. Other than that, he didn't do anything. When the teachers of his class asked him any question, he would answer it immediately.

He always kept himself away from social activities; but once when he was going to his school, he saw a very old man begging on the roadside.

At first, he thought that he should stop there and ask him why he was begging because he was too old to do that, and instead, he should rest. At the same time, he realized that if he stopped there to speak to the old man, he would be late for school.

He thought for a while and went to the old man. He saw that everyone was passing by him but no one was giving him alms. After seeing the incident, he took out twenty rupees from his pocket and gave it to the beggar. By doing that, he felt very good and reached the school gasping.

What did Thomas want to ask the old man?

- A. The reason for begging
- B. To eat healthy food
- C. To beg as much as he could
- D. To rest instead of begging

S No.41

Item Code	Question Type	Ans Key	Marks
6156041	MCQ	B	1
<p>After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.</p> <p>TEXT</p> <p>When Thomas was fifteen, he was a very intelligent and generous boy. He spent his day only reading, eating, and sleeping. Other than that, he didn't do anything. When the teachers of his class asked him any question, he would answer it immediately.</p> <p>He always kept himself away from social activities; but once when he was going to his school, he saw a very old man begging on the roadside.</p> <p>At first, he thought that he should stop there and ask him why he was begging because he was too old to do that, and instead, he should rest. At the same time, he realized that if he stopped there to speak to the old man, he would be late for school.</p> <p>He thought for a while and went to the old man. He saw that everyone was passing by him but no one was giving him alms. After seeing the incident, he took out twenty rupees from his pocket and gave it to the beggar. By doing that, he felt very good and reached the school gasping.</p> <p>Why did Thomas give the old man twenty rupees?</p> <p>A. Because the old man was dying</p> <p>B. Because no one was giving him any alms</p> <p>C. Because he had money in his pocket</p> <p>D. Because the old woman was poor</p>			

S No.42

Item Code	Question Type	Ans Key	Marks
6156042	MCQ	C	1

After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.

TEXT

When Thomas was fifteen, he was a very intelligent and generous boy. He spent his day only reading, eating, and sleeping. Other than that, he didn't do anything. When the teachers of his class asked him any question, he would answer it immediately.

He always kept himself away from social activities; but once when he was going to his school, he saw a very old man begging on the roadside.

At first, he thought that he should stop there and ask him why he was begging because he was too old to do that, and instead, he should rest. At the same time, he realized that if he stopped there to speak to the old man, he would be late for school.

He thought for a while and went to the old man. He saw that everyone was passing by him but no one was giving him alms. After seeing the incident, he took out twenty rupees from his pocket and gave it to the beggar. By doing that, he felt very good and reached the school gasping.

Which is NOT a synonym of 'gasp'?

- A.** Heave
- B.** Breathe hard
- C.** Squeal
- D.** Pant

S No.43

Item Code	Question Type	Ans Key	Marks
6156043	MCQ	C	1

After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.

TEXT

A well-dressed young man entered a big textile shop one evening. He was able to draw the attention of the salesmen who thought him rich and likely to make heavy purchases. He was shown the superior varieties of suit lengths and sarees. But after casually examining them, he kept moving to the next section, where readymade goods were being sold and further on to the hosiery section. By then, the salesmen had begun to doubt his intentions and drew the attention of the manager.

The manager asked him what exactly he wanted and he replied that he wanted courteous treatment. He explained that he had come to the same shop in casual dress that morning and drawn little attention. His pride was hurt and he wanted to assert himself. He had come in good dress only to get decent treatment, not for getting any textiles. He left without making any purchase.

The young man was well-dressed because _____.

- A. it was his habit to dress well
- B. it was his wedding day
- C. he wanted decent treatment
- D. he wanted to impress the salesmen

S No.44

Item Code	Question Type	Ans Key	Marks
6156044	MCQ	C	1

After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.

TEXT

A well-dressed young man entered a big textile shop one evening. He was able to draw the attention of the salesmen who thought him rich and likely to make heavy purchases. He was shown the superior varieties of suit lengths and sarees. But after casually examining them, he kept moving to the next section, where readymade goods were being sold and further on to the hosiery section. By then, the salesmen had begun to doubt his intentions and drew the attention of the manager.

The manager asked him what exactly he wanted and he replied that he wanted courteous treatment. He explained that he had come to the same shop in casual dress that morning and drawn little attention. His pride was hurt and he wanted to assert himself. He had come in good dress only to get decent treatment, not for getting any textiles. He left without making any purchase.

The salesmen in the shop are described as people who pay attention to

_____.

- A. only young men and women
- B. pretty women
- C. only rich customers
- D. regular customers

S No.45

Item Code	Question Type	Ans Key	Marks
6156045	MCQ	A	1

After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.

TEXT

A well-dressed young man entered a big textile shop one evening. He was able to draw the attention of the salesmen who thought him rich and likely to make heavy purchases. He was shown the superior varieties of suit lengths and sarees. But after casually examining them, he kept moving to the next section, where readymade goods were being sold and further on to the hosiery section. By then, the salesmen had begun to doubt his intentions and drew the attention of the manager.

The manager asked him what exactly he wanted and he replied that he wanted courteous treatment. He explained that he had come to the same shop in casual dress that morning and drawn little attention. His pride was hurt and he wanted to assert himself. He had come in good dress only to get decent treatment, not for getting any textiles. He left without making any purchase.

The young man moved away to the hosiery section because he _____.

- A. was not interested in purchasing anything
- B. did not like the readymade clothes
- C. wanted better clothes
- D. was restless

S No.46

Item Code	Question Type	Ans Key	Marks
6156046	MCQ	B	1

After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.

TEXT

A well-dressed young man entered a big textile shop one evening. He was able to draw the attention of the salesmen who thought him rich and likely to make heavy purchases. He was shown the superior varieties of suit lengths and sarees. But after casually examining them, he kept moving to the next section, where readymade goods were being sold and further on to the hosiery section. By then, the salesmen had begun to doubt his intentions and drew the attention of the manager.

The manager asked him what exactly he wanted and he replied that he wanted courteous treatment. He explained that he had come to the same shop in casual dress that morning and drawn little attention. His pride was hurt and he wanted to assert himself. He had come in good dress only to get decent treatment, not for getting any textiles. He left without making any purchase.

The manager asked the young man what he wanted because _____.

- A. he would give him exactly what he was looking for
- B. the salesman had drawn his attention to the indifferent attitude of the young man
- C. he thought they could do more business with him that way
- D. he thought the visitor was dissatisfied

S No.47

Item Code	Question Type	Ans Key	Marks
6156047	MCQ	D	1

After reading the given TEXT answer the 4 questions each having **two blanks** that have to be filled by choosing the appropriate option.

TEXT

Our voyage was very prosperous, but I shall not trouble the reader with a journal of it. The captain called in at one or two ports and sent in his long-boat for provisions and fresh water, but I never went out of the ship still we came into the Downs, which was on the 3rd day of June, 1706, about nine months after my escape.

I offered to leave my goods in security for payment of my freight, but the captain protested he would not receive one farthing. We took kind leave of each other, and I made him promise that he would come to see me at my house in Redriff. I hired a house and a guide for five shillings which I borrowed from the captain

On the voyage, the author _____.

- A. left the ship at intervals
- B. was not able to leave the ship because it did not stop
- C. never left the ship at all
- D. never left the ship till they came into the Downs

S No.48

Item Code	Question Type	Ans Key	Marks
6156048	MCQ	B	1

After reading the given TEXT answer the 4 questions each having **two blanks** that have to be filled by choosing the appropriate option.

TEXT

Our voyage was very prosperous, but I shall not trouble the reader with a journal of it. The captain called in at one or two ports and sent in his long-boat for provisions and fresh water, but I never went out of the ship still we came into the Downs, which was on the 3rd day of June, 1706, about nine months after my escape.

I offered to leave my goods in security for payment of my freight, but the captain protested he would not receive one farthing. We took kind leave of each other, and I made him promise that he would come to see me at my house in Redriff. I hired a house and a guide for five shillings which I borrowed from the captain

For the payment of the author's freight, the captain _____.

- A. kept his goods as security
- B. refused to accept any money
- C. protested against being paid only a farthing
- D. accepted a sum of money

S No.49

Item Code	Question Type	Ans Key	Marks
6156049	MCQ	C	1

After reading the given TEXT answer the 4 questions each having **two blanks** that have to be filled by choosing the appropriate option.

TEXT

Our voyage was very prosperous, but I shall not trouble the reader with a journal of it. The captain called in at one or two ports and sent in his long-boat for provisions and fresh water, but I never went out of the ship still we came into the Downs, which was on the 3rd day of June, 1706, about nine months after my escape.

I offered to leave my goods in security for payment of my freight, but the captain protested he would not receive one farthing. We took kind leave of each other, and I made him promise that he would come to see me at my house in Redriff. I hired a house and a guide for five shillings which I borrowed from the captain

From the passage, it is clear that the captain's attitude to the author was _____.

- A. One of hostility
- B. One of indifference
- C. One of extreme friendliness and kindness
- D. One of disgust and irritation

S No.50

Item Code	Question Type	Ans Key	Marks
6156050	MCQ	C	1

After reading the given TEXT answer the 4 questions each having **two blanks** that have to be filled by choosing the appropriate option.

TEXT

Our voyage was very prosperous, but I shall not trouble the reader with a journal of it. The captain called in at one or two ports and sent in his long-boat for provisions and fresh water, but I never went out of the ship still we came into the Downs, which was on the 3rd day of June, 1706, about nine months after my escape.

I offered to leave my goods in security for payment of my freight, but the captain protested he would not receive one farthing. We took kind leave of each other, and I made him promise that he would come to see me at my house in Redriff. I hired a house and a guide for five shillings which I borrowed from the captain

Which word in the passage means 'a diary'?

- A. freight
- B. security
- C. journal
- D. voyage

S No.51

Item Code	Question Type	Ans Key	Marks
6166051	MCQ	A	2

Identify the type of roof from the image given below.



- A. Filler slab
- B. Coffered ceiling
- C. Pergola
- D. False ceiling

S No.52

Item Code	Question Type	Ans Key	Marks
6166052	MCQ	B	2

Identify this tool.



- A. Angle float
- B. Sponge float
- C. Wood float
- D. Sponge trowel

S No.53

Item Code	Question Type	Ans Key	Marks
6166053	MCQ	D	2

Identify the building material.



- A. Sandstone
- B. Mud blocks
- C. Terracotta blocks
- D. Laterite stone

S No.54

Item Code	Question Type	Ans Key	Marks
6166054	MCQ	D	2

Identify the construction material.

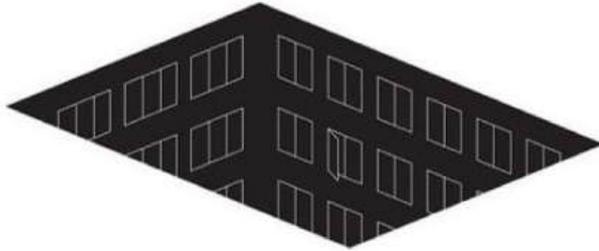


- A. Hourdi blocks
- B. AAC Blocks
- C. Fly ash bricks
- D. Porotherm blocks

S No.55

Item Code	Question Type	Ans Key	Marks
6166055	MCQ	B	2

Identify the building element.



- A. Portico
- B. Courtyard
- C. Geometric pattern
- D. Building shadow

S No.56

Item Code	Question Type	Ans Key	Marks
6176056	MCQ	C	1

Identify the name of the place from its popular statues in a public place.



- A. Johannesburg, S. Africa
- B. Paris, France
- C. Patna, Bihar
- D. Valentia, Spain

S No.57

Item Code	Question Type	Ans Key	Marks
6176057	MCQ	D	1

What will square or rectangular, green signs with white pictograms typically indicate?



- A. That you should proceed with caution
- B. That you are in a hazard-free environment and should not wear PPE
- C. They will inform you that it is safe to use any machinery in the area
- D. They will indicate what emergency procedures are or an emergency location

S No.58

Item Code	Question Type	Ans Key	Marks
6176058	MCQ	C	1

'Gauri', was awarded the 'Best Long Documentary Award' at the South Asian Film Festival of Montreal 2023. Who was the director?

- A. Daisy Bopanna
- B. Anu Prabhakar
- C. Kavitha Lankesh
- D. Divya Spandana

S No.59

Item Code	Question Type	Ans Key	Marks
6176059	MCQ	D	1

President Droupadi Murmu was conferred with 'The Grand Order of the Chain of Yellow Star', the highest civilian honor of which country?

- A. Palau
- B. Samoa
- C. Papua New Guinea
- D. Suriname

S No.60

Item Code	Question Type	Ans Key	Marks
6176060	MCQ	A	1

What is the theme of the Fifth World Food Safety Day 2023, which is observed annually on June 5?

- A. Food standards save lives
- B. Safer food, better health
- C. Safe food today for a healthy tomorrow
- D. Nutrition for a better tomorrow

S No.61			
Item Code	Question Type	Ans Key	Marks
6176061	MCQ	B	1
<p>In which country is the Global Seed Vault located?</p> <p>A. Denmark B. Norway C. Sweden D. Finland</p>			

S No.62			
Item Code	Question Type	Ans Key	Marks
6176062	MCQ	D	1
<p>The hypothetical process of deliberately modifying the atmosphere, temperature, surface topography or ecology of a planet is called _____.</p> <p>A. Geo engineering B. Adaptation C. Mitigation D. Terraforming</p>			

S No.63			
Item Code	Question Type	Ans Key	Marks
6186063	MCQ	C	1
<p>Fact 1: Pictures can tell a story. Fact 2: All storybooks have pictures. Fact 3: Some storybooks have words.</p> <p>If the first three statements are facts, which of the following statements must also be a fact?</p> <p>I: Pictures can tell a story better than words can. II: The stories in storybooks are very simple. III: Some storybooks have both words and pictures.</p> <p>A. I only B. II only C. III only D. I and III only</p>			

S No.64

Item Code	Question Type	Ans Key	Marks
6186064	MCQ	B	1

In the given three positions of dice then which face is opposite to the face with alphabet B?

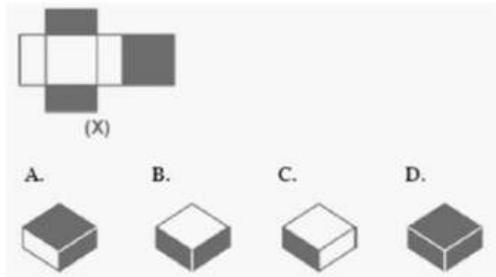


- A. E
- B. F
- C. D
- D. A

S No.65

Item Code	Question Type	Ans Key	Marks
6186065	MCQ	A	1

Choose a box that is similar to the box formed from the given sheet of paper (X).

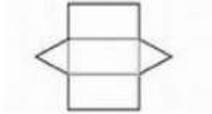


- A. A & C only
- B. A & D only
- C. B & C only
- D. C & D only

S No.66

Item Code	Question Type	Ans Key	Marks
6186066	MCQ	A	2

Which figure would be formed by folding this net?



- A. Rectangular prism
- B. Triangular prism
- C. Triangular pyramid
- D. Rectangular pyramid

S No.67

Item Code	Question Type	Ans Key	Marks
6186067	MCQ	C	2

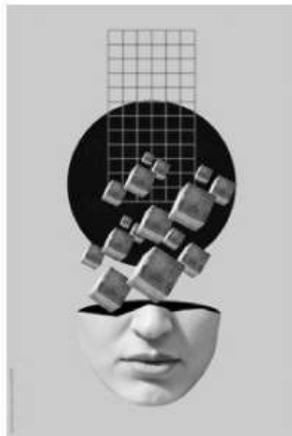
In their class, Chandan, Peter, Kamal, Dhruv and Senthil are sitting on a bench. Chandan is sitting next to Peter; Kamal is sitting next to Dhruv. Dhruv is not sitting with Senthil. If Chandan and Senthil sit on either end of the bench where does Dhruv sit?

- A. between Peter and Dhruv
- B. between Dhruv and Senthil
- C. between Peter and Kamal
- D. between Kamal and Senthil

S No.68

Item Code	Question Type	Ans Key	Marks
6196068	MSQ	B, C, D, H	2

Choose any **four most appropriate design principles/ attributes** which can be commonly observed in the given black and white composition.



- A. Symmetry
- B. Abstraction
- C. Emphasis
- D. Foreground and Background
- E. Progression
- F. Fluidity
- G. Balance
- H. Contrast

S No.69

Item Code	Question Type	Ans Key	Marks
6196069	MSQ	B, C, E, G	2

Choose any **four most appropriate design principles/ attributes** applicable to the composition given below.



- A. Diverging
- B. Similarity
- C. Axis
- D. Transparency
- E. Movement
- F. Closure
- G. Unity
- H. Monochromatic

S No.70

Item Code	Question Type	Ans Key	Marks
6196070	MSQ	A, C, D, G	2

Choose any **four most appropriate design principles/ attributes** applicable to the composition given below.

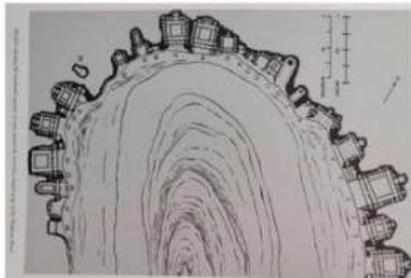


- A. Abstract
- B. Void
- C. Opaqueness
- D. Contour
- E. Transparency
- F. Void
- G. Minimalism
- H. Contrast

S No.71

Item Code	Question Type	Ans Key	Marks
61106071	MCQ	B	2

Identify the building from the image given below:



- A. Nariman point necklace
- B. Caves at Ajanta
- C. Lunar crater
- D. Badami temples

S No.72

Item Code	Question Type	Ans Key	Marks
61106072	MCQ	B	2

What does this colour coding of a city relate to? Identify

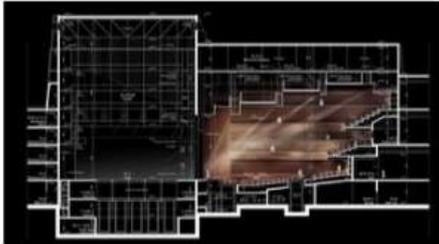


- A. Coastal zone regulations
- B. Land use coding
- C. Vulnerable zones
- D. Density

S No.73

Item Code	Question Type	Ans Key	Marks
61106073	MCQ	A	2

What building typology does the given section indicate?



- A. Auditorium
- B. Stadium
- C. Gallery
- D. Lecture room

S No.74

Item Code	Question Type	Ans Key	Marks
61106074	MCQ	A	2

This image is a Zero-mile Stone located at the zero-mile center of India. Identify the city.

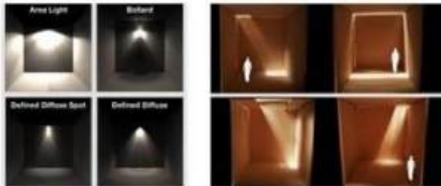


- A. Nagpur
- B. Bhopal
- C. Raipur
- D. Warangal

S No.75

Item Code	Question Type	Ans Key	Marks
61106075	MCQ	C	2

From the given options A, B, C and D, how many options depict the study of natural lighting?

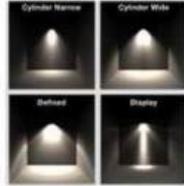


A

B



C



D

- A. D and B
- B. A only
- C. B and C
- D. D only

S No.76

Item Code	Question Type	Ans Key	Marks
61116076	MCQ	D	2

Image below is composed by repetition of a logo identify the product which uses the logo.



- A. Space research organization
- B. Airline company
- C. Vaccine company
- D. Automobile company

S No.77

Item Code	Question Type	Ans Key	Marks
61116077	MCQ	D	2

Identify the image.



- A. An eyeball
- B. Moving wheel
- C. Train wheel
- D. Ball pen

S No.78

Item Code	Question Type	Ans Key	Marks
61116078	MCQ	D	2

Identify the signboard



- A. Water sports
- B. Steep slope ahead
- C. School atop hill
- D. Tsunami evacuation route.

S No.79

Item Code	Question Type	Ans Key	Marks
61116079	MCQ	A	2

Identify the image.



- A. A zip
- B. Leaf veins
- C. Milk bottles
- D. Machine Pistons

S No.80

Item Code	Question Type	Ans Key	Marks
61116080	MCQ	A	2

What does the sculpture depict?

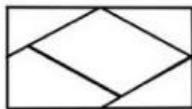
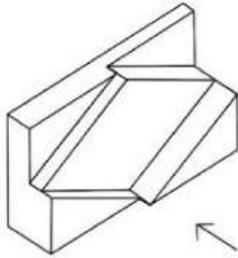


- A. Religious figure
- B. Abstraction of a Pen
- C. Political figure
- D. Government organization

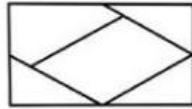
S No.81

Item Code	Question Type	Ans Key	Marks
61126081	MCQ	D	2

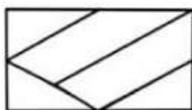
Identify the correct front view (indicated by the arrow) for the given 3D figure.



A



B



C

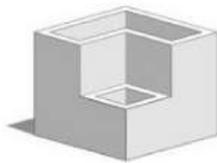


D

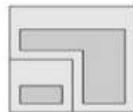
S No.82

Item Code	Question Type	Ans Key	Marks
61126082	MCQ	C	2

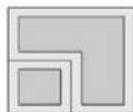
Identify the correct top view of the given figure from the answer options.



A



B



C

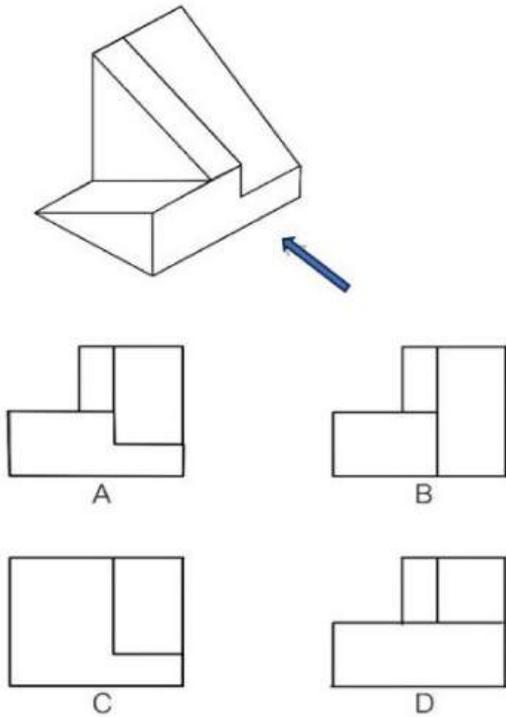


D

S No.83

Item Code	Question Type	Ans Key	Marks
61126083	MCQ	A	2

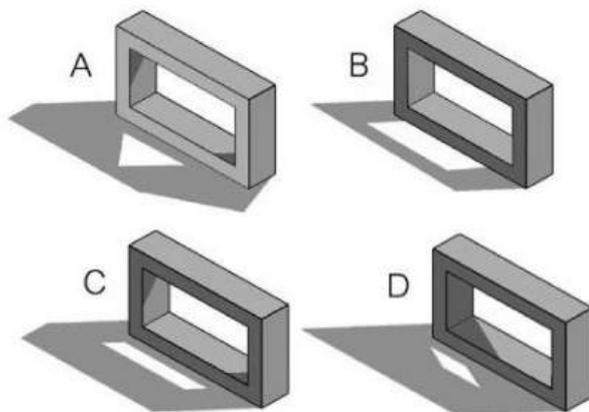
Identify the correct side view (as indicated by the arrow) of the given figure from the answer options.



S No.84

Item Code	Question Type	Ans Key	Marks
61126084	MCQ	C	2

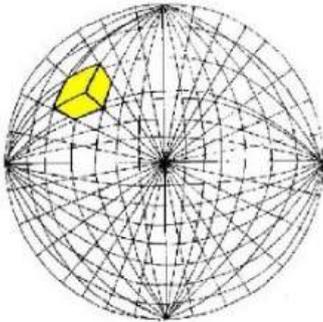
Identify the correct shadow cast for the given object if the angle of light is the same for all the given options.



S No.85

Item Code	Question Type	Ans Key	Marks
61126085	MCQ	C	2

Identify the correct perspective for the figure given below.

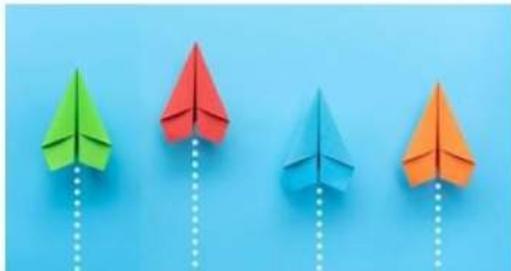


- A. 3- Point perspective
- B. 4- Point perspective
- C. 5- Point perspective
- D. 0- Point perspective

S No.86

Item Code	Question Type	Ans Key	Marks
61136086	MCQ	C	2

Identify the colour harmony scheme used in the image given below.



- A. Split complementary harmony
- B. Analogous colour harmony
- C. Tetradic colour harmony
- D. Primary colour harmony

S No.87

Item Code	Question Type	Ans Key	Marks
61136087	MCQ	C	2

Which of the following frames display an analogous colour harmony scheme?

**A****B****C****D****S No.88**

Item Code	Question Type	Ans Key	Marks
61136088	MCQ	B	2

Which of these colour schemes is defined by creating a high amount of contrast and high colour impact between colours?

- A. The diadic colour scheme
- B. The complementary colour scheme
- C. The tetradic colour scheme
- D. The split complementary colour scheme

S No.89

Item Code	Question Type	Ans Key	Marks
61136089	MCQ	C	2

Which of the following do NOT apply to the colour scheme given below?



- A. Analogous
- B. Warm
- C. Complementary
- D. Stimulating

S No.90

Item Code	Question Type	Ans Key	Marks
61136090	MCQ	D	2

The painting 'Bridge at Narni' by Jean-Baptiste-Camille is a good illustration of which of the following concepts?



- A. Colour temperature
- B. Spatial concept
- C. Spatial concept and illusions
- D. Colour temperature and spatial concept

S No.91

Item Code	Question Type	Ans Key	Marks
61146091	MSQ	A, D, E, F	2

Choose **four appropriate design attributes** suitable to the given architectural composition

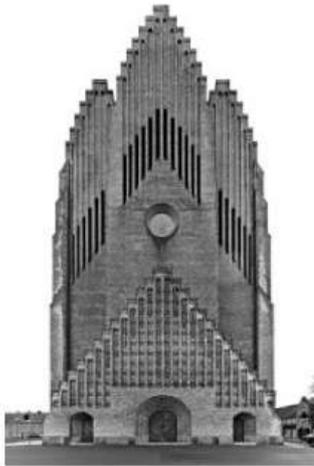


- A. Classical
- B. Transparency
- C. Symmetry
- D. Geometry
- E. Focus
- F. Repetition
- G. Vibrant
- H. Dominance

S No.92

Item Code	Question Type	Ans Key	Marks
61146092	MSQ	A, C, E, G	2

Choose any **four most appropriate design principles / attributes** which can be commonly observed in the given picture of the Grundtvig's church Copenhagen.



- A. Repetition
- B. Asymmetry
- C. Verticality
- D. Contrast
- E. Movement
- F. Imbalance
- G. Rhythm
- H. Distortion

S No.93

Item Code	Question Type	Ans Key	Marks
61146093	MSQ	A, E, F, G	2

Choose any **four most appropriate design principles / attributes** suitable to the given composition.

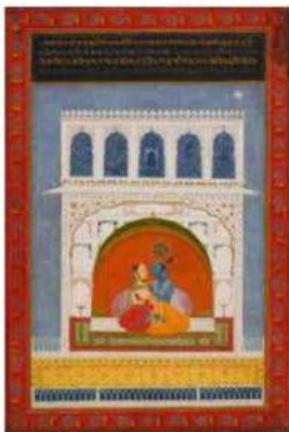


- A. Abstraction
- B. Axis
- C. Distortion
- D. Contrast
- E. Fluidity
- F. Focus
- G. Lightness
- H. Static

S No.94

Item Code	Question Type	Ans Key	Marks
61156094	MCQ	C	2

An example of a typical traditional painting is shown below. Identify.

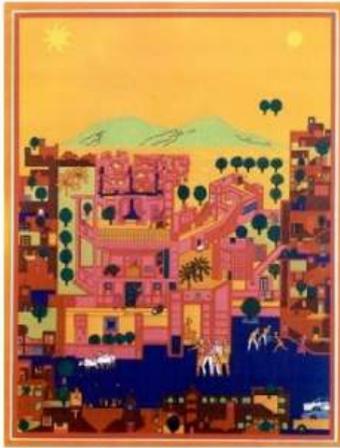


- A. Madhubani paintings
- B. Warli paintings
- C. Ragmala paintings
- D. Chitra Kavya paintings

S No.95

Item Code	Question Type	Ans Key	Marks
61156095	MCQ	A	2

Identify the artist of the painting given below.



- A. B. V. Doshi
- B. K. K. Hebbar
- C. M. F. Hussain
- D. Amrita Sher Gill

S No.96

Item Code	Question Type	Ans Key	Marks
61156096	MCQ	C	2

Identify the famous surrealist artist.



- A. Vincent Van Gogh
- B. Jackson Pollock
- C. Salvador Dali
- D. Andy Warhol

S No.97

Item Code	Question Type	Ans Key	Marks
61166097	MCQ	B	2

In which city in the world would you see this building?



- A. Delhi, India
- B. Pisa, Italy
- C. Paris, France
- D. Lima, Peru

S No.98

Item Code	Question Type	Ans Key	Marks
61166098	MCQ	A	2

Where in the Indian sub-continent would you find the following building type?

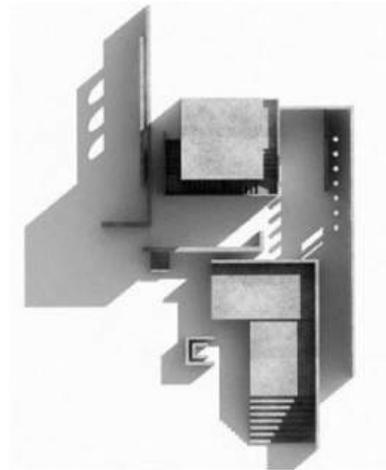


- A. Himalayan mountains
- B. Rajasthan desert
- C. Indo Gangetic plain
- D. Eastern sea board

S No.99

Item Code	Question Type	Ans Key	Marks
61166099	MCQ	D	2

What does the given image represent?



- A. Side view of a miniature building model.
- B. Model of a wooden joinery system
- C. Miniature model of a building interior
- D. Top view of a miniature building model.

S No.100

Item Code	Question Type	Ans Key	Marks
61166100	NAT	4	2

How many wrong pairs of slippers are there in the given picture?

**S No.101**

Item Code	Question Type	Ans Key	Marks
61176101	MCQ	D	2

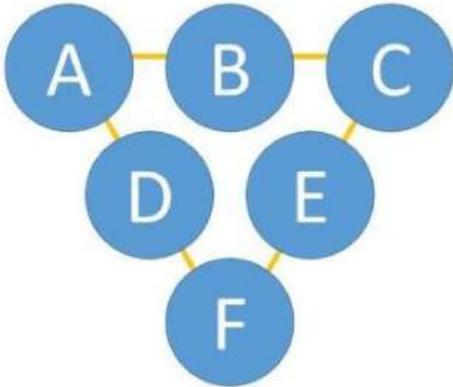
Shoes always have _____.

- A. laces
- B. leather
- C. strap
- D. soles

S No.102

Item Code	Question Type	Ans Key	Marks
61176102	MCQ	C	2

The given circles – A, B, C, D, E, F are arranged on a triangular pattern, which are the circles that are required to be moved if the triangular pattern has to be inverted by **moving a minimum number of circles.**



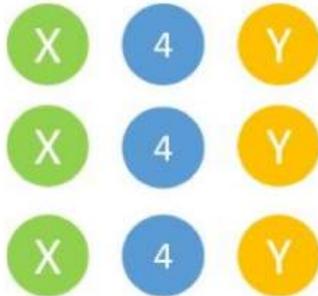
Given Triangle pattern

- A. Circles B and C
- B. Circles A, B and D
- C. Circles A and C
- D. Circles D and F

S No.103

Item Code	Question Type	Ans Key	Marks
61176103	MCQ	D	2

Find the numbers X and Y for the given figure.



- A. 1 and 4
- B. 2 and 5
- C. 1 and 7
- D. 1 and 8

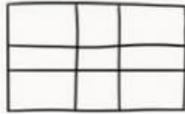
S No.104

Item Code	Question Type	Ans Key	Marks
61176104	MCQ	A	2

Which of the following **does not** represent Golden Proportions?



A



B



C



D

S No.105

Item Code	Question Type	Ans Key	Marks
61176105	MCQ	B	2

Find the **X** in the given sequence



X



(A)



(B)



(C)



(D)

S No.106

Item Code	Question Type	Ans Key	Marks
61176106	MCQ	A	2

Choose the ODD one out.

- A. Small
- B. Volume
- C. Size
- D. Shape

S No.107

Item Code	Question Type	Ans Key	Marks
61176107	MCQ	A	2

The man finds himself commuting to work in his car every day. Upon arrival to work each morning, he proceeds to drive his car in a circle four times before finally parking it and entering his office building. Why does the man drive in circles every day?

- A. The building has a multistory car parking.
- B. Man drives in circle to slowdown the car before stopping.
- C. The man driving is blind
- D. The man is trying to find a parking spot

S No.108

Item Code	Question Type	Ans Key	Marks
61176108	MCQ	C	2

A Hill always has _____.

- A. animals
- B. trees
- C. height
- D. water

S No.109

Item Code	Question Type	Ans Key	Marks
61176109	MCQ	B	2

You may see me once in June, twice in November, and not at all in May. What am I?

- A. Word
- B. Letter
- C. Number
- D. Symbol

S No.110

Item Code	Question Type	Ans Key	Marks
61176110	NAT	204	2

Find the number of squares in the chessboard.



S No.111

Item Code	Question Type	Ans Key	Marks
61186111	MCQ	A	2

Choose the correct architectural terminology for the given image.



- A. Colonnade
- B. Portico
- C. Aisle
- D. Nave

S No.112

Item Code	Question Type	Ans Key	Marks
61186112	MCQ	B	2

Which architectural typology is this image identified with?

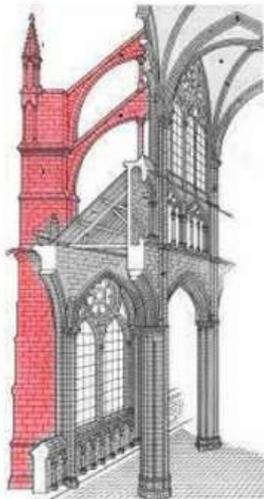


- A. Amphitheatre
- B. Step well
- C. Temple tank
- D. Auditorium

S No.113

Item Code	Question Type	Ans Key	Marks
61186113	MCQ	D	2

Name the part of a typical Gothic church highlighted in colour.



- A. Nave
- B. Triforium
- C. Gargoyle
- D. Buttress

S No.114

Item Code	Question Type	Ans Key	Marks
61186114	MCQ	D	2

Choose the most appropriate construction tech vocabulary for the image given below.



- A.** Semi-circular arch and barrel vault
- B.** Squinch and cross vault
- C.** Oculus and hemisphere
- D.** Pendentive and dome

S No.115

Item Code	Question Type	Ans Key	Marks
61186115	MSQ	B, C, E, G	2

The image of the Great Mosque, Djene, Kali. Identify **four** building/ architectural components that can be observed in the image.
Marks will be awarded only if all answers are correct.



- A. Spires
- B. Adobe
- C. Platform
- D. Stained glass
- E. Pinnacles
- F. Concrete
- G. Tower
- H. Clerestory

S No.116

Item Code	Question Type	Ans Key	Marks
61196116	MCQ	B	3

Carefully observe the given Art work.
The image will disappear after **45** seconds and answer the following **two questions** based on the image.

Caution: The image once viewed cannot be viewed again.



To which place(s) do the monument image set belong to?

- A. Agra
- B. N Delhi
- C. Lucknow
- D. N Delhi and Agra

S No.117

Item Code	Question Type	Ans Key	Marks
61196117	NAT	7	3

Carefully observe the given Art work.

The image will disappear after **45** seconds and answer the following **two questions** based on the image.

Caution: The image once viewed cannot be viewed again.



How many monuments were seen in the image set?

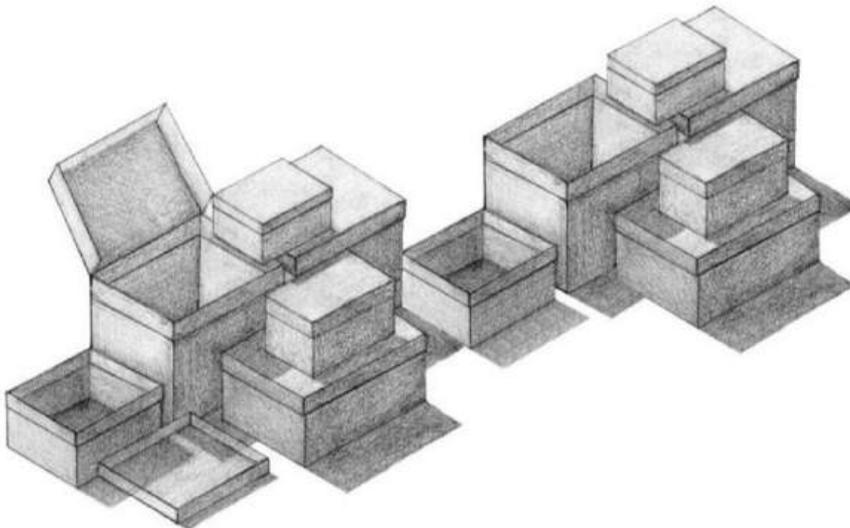
S No.118

Item Code	Question Type	Ans Key	Marks
61196118	NAT	4	3

Carefully observe the given image.

You can view the image for **45** 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.



How many boxes were seen in opened condition in the given image?

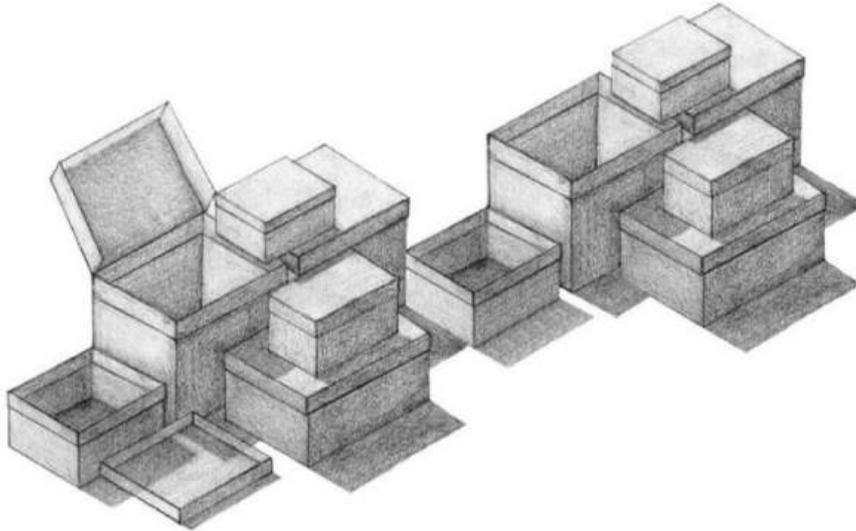
S No.119

Item Code	Question Type	Ans Key	Marks
61196119	MCQ	B	3

Carefully observe the given image.

You can view the image for **45** 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.



How many boxes did not have a lid for the box?

- A. 1
- B. 2
- C. 3
- D. None

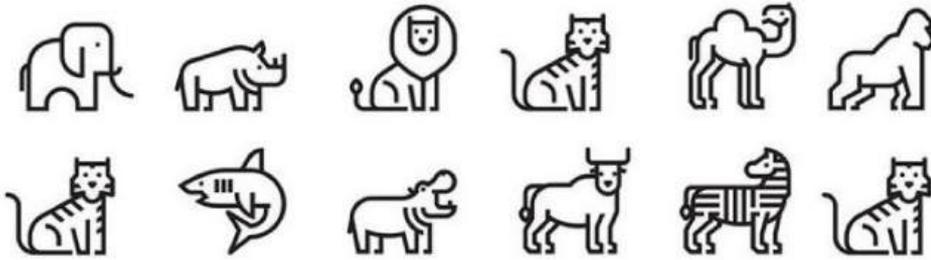
S No.120

Item Code	Question Type	Ans Key	Marks
61196120	MCQ	D	3

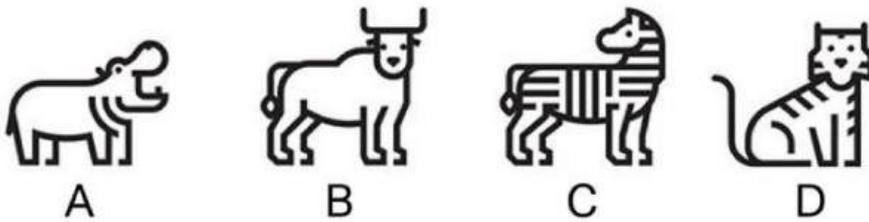
Carefully observe the given image set comprising of animals

You can view the image for 45 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.



Which among the animals depicted below appeared the most?



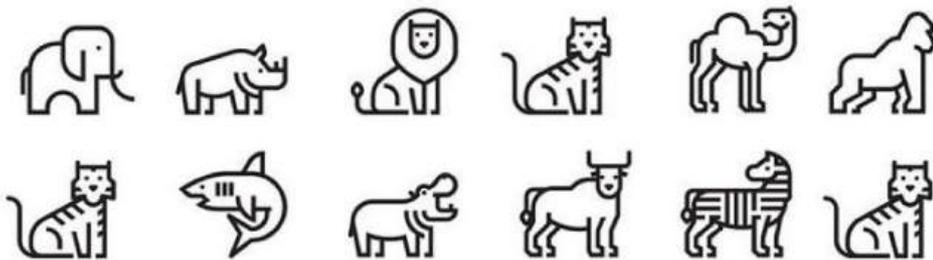
S No.121

Item Code	Question Type	Ans Key	Marks
61196121	MCQ	D	3

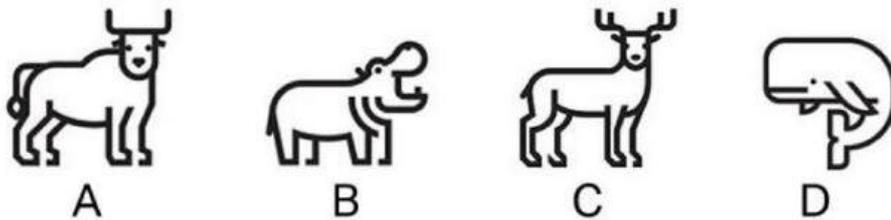
Carefully observe the given image set comprising of animals

You can view the image for 45 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.



Which among the following animals depicted did not appear in the given image set?



- A. Animal C
- B. Animals A and D
- C. Animal B
- D. Animals C and D

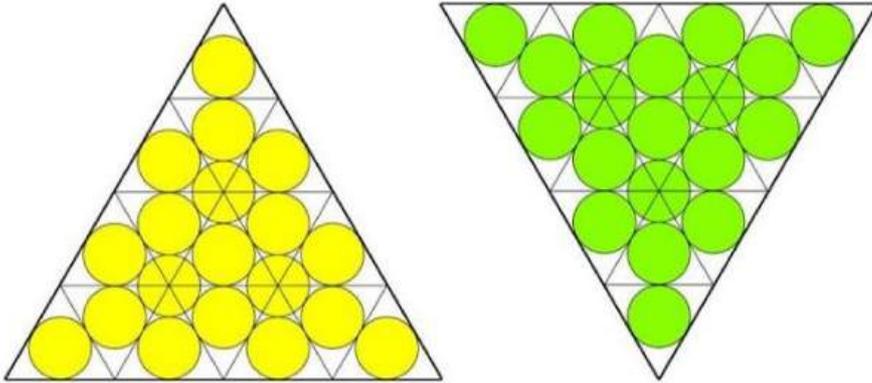
S No.122

Item Code	Question Type	Ans Key	Marks
61196122	NAT	3	3

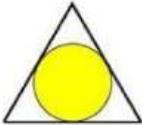
Carefully observe the given image set.

You can view the image for **45** 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.



What is the number of times that the pattern given below appeared in the image set?

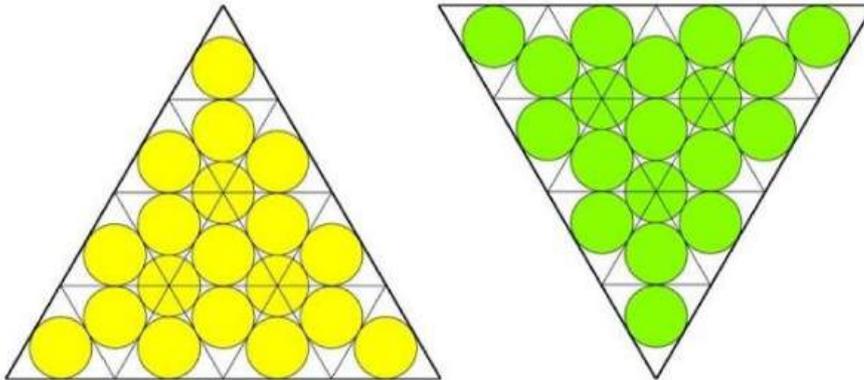


S No.123

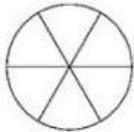
Item Code	Question Type	Ans Key	Marks
61196123	MCQ	A	3

Carefully observe the given image set.
You can view the image for **45** 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.



What is the number of times that the pattern given below appeared in the image set?



- A. 6
- B. 3
- C. 9
- D. 12

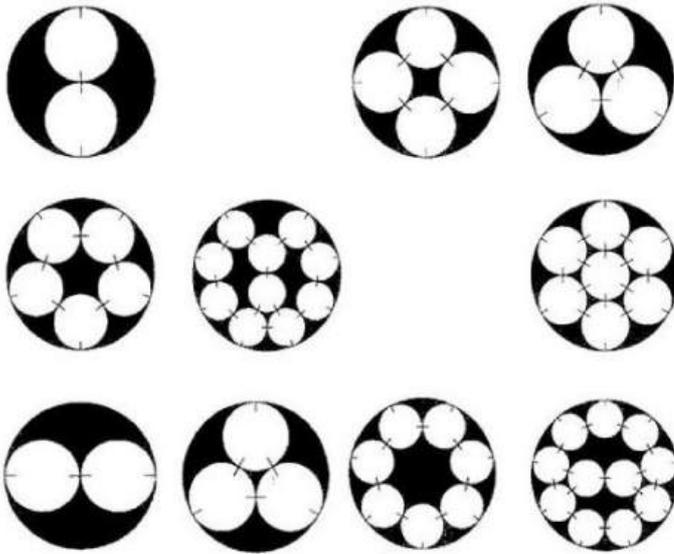
S No.124

Item Code	Question Type	Ans Key	Marks
61196124	NAT	2	3

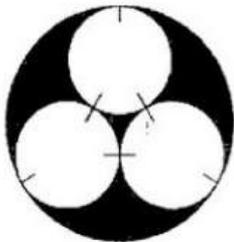
Carefully observe the given image set.

You can view the image for 45 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.



What is the number of times the pattern given below appeared in the image set?



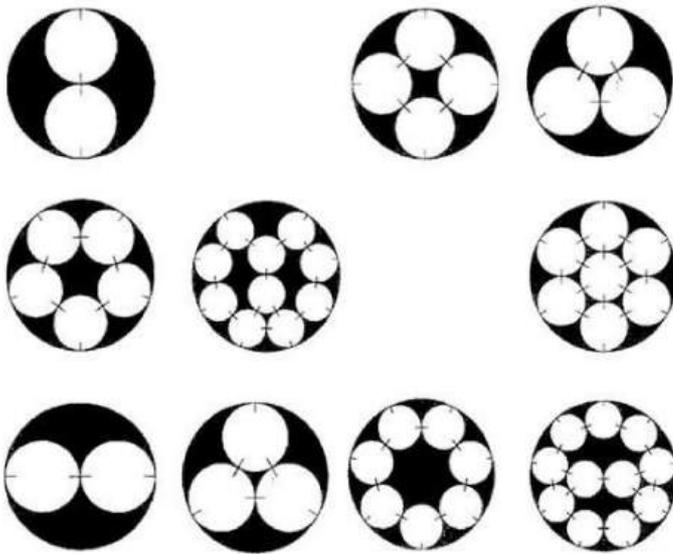
S No.125

Item Code	Question Type	Ans Key	Marks
61196125	MCQ	B	3

Carefully observe the given image set.

You can view the image for 45 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.



Which of the following shape patterns did not appear in the image set?

