

S No.1			
Item Code	Question Type	Ans Key	Marks
2112001	MCQ	A	1
<p>A man walked diagonally across a square lot. Approximately, what was the percent saved by not walking along the edges?</p> <p>A. 30 %</p> <p>B. 24 %</p> <p>C. 28 %</p> <p>D. 35 %</p>			

S No.2			
Item Code	Question Type	Ans Key	Marks
2112002	MCQ	A	1
<p>The sum of the digits of a two-digit number is 15 and the difference between the digits is 3. What is the two-digit number pair?</p> <p>A. 96 or 69</p> <p>B. 27 or 72</p> <p>C. 56 or 65</p> <p>D. 75 or 57</p>			

S No.3			
Item Code	Question Type	Ans Key	Marks
2112003	MCQ	A	1
<p>The product of two numbers is 120 and the sum of their squares is 289. The sum of the number is:</p> <p>A. 23</p> <p>B. 27</p> <p>C. 32</p> <p>D. 64</p>			

S No.4			
Item Code	Question Type	Ans Key	Marks
2112004	MCQ	B	1
<p>A sum of money is to be distributed among Arun, Banu, Chinu, Dany in the proportion of 5: 2: 4: 3 respectively. If C gets Rs. 1500 more than D, what is B's share?</p> <p>A. Rs. 500</p> <p>B. Rs. 3000</p> <p>C. Rs. 900</p> <p>D. Rs. 5000</p>			

S No.5

Item Code	Question Type	Ans Key	Marks
2112005	MCQ	C	1

Six bells commence tolling together and toll at intervals of 2, 4, 6, 8 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together?

- A. 3
- B. 15
- C. 16
- D. 6

S No.6

Item Code	Question Type	Ans Key	Marks
2112006	NAT	3000	1

A card board sheet is of rectangular shape with dimensions 50 cm x 30 cm. From each of its corners, a square is cut off so as to make an open box. If the side of the square is 10 cm, then what is the volume of the box?  
(Answer to be provided in  $\text{cm}^3$ )

S No.7

Item Code	Question Type	Ans Key	Marks
2112007	NAT	65	1

The length of a rectangular plot is 30 m more than its breadth. If the cost of fencing the plot @ 25 per meter is Rs. 5000, what is the length of the plot in m?

S No.8

Item Code	Question Type	Ans Key	Marks
2112008	NAT	23	1

The product of two numbers is 120 and the sum of their squares is 289. The sum of the number is:

S No.9

Item Code	Question Type	Ans Key	Marks
2112009	NAT	4.528 Or 4.53	1

A hollow iron pipe is 20 cm long and its external diameter is 10 cm. If the thickness of the pipe is 1 cm and iron weighs  $8 \text{ g/cm}^3$ , then what is the weight of the pipe?  
(Answer to be provided in kg to the third decimal).

S No.10

Item Code	Question Type	Ans Key	Marks
2112010	NAT	20	1

40 men took a dip in a water tank 50 m long and 20 m broad on a religious day. If the average displacement of water by a man is  $5 \text{ m}^3$ , what will the rise in the water level in the tank be?  
(Answer to be provided in cm)

S No.11

Item Code	Question Type	Ans Key	Marks
2122011	MCQ	C	1

Which of the following is a physical change?

- A. Oxidation
- B. Decomposition
- C. Sublimation
- D. Reduction

S No.12

Item Code	Question Type	Ans Key	Marks
2122012	MCQ	C	1

The speed of sound waves is maximum in \_\_\_\_\_.

- A. Liquids
- B. Gases
- C. Solids
- D. All of these

S No.13

Item Code	Question Type	Ans Key	Marks
2122013	MCQ	B	1

The purest form of water can be obtained from -

- A. a deep tube well
- B. a heavy shower of rain
- C. a hot water spring
- D. a running stream

S No.14

Item Code	Question Type	Ans Key	Marks
2122014	MCQ	D	1

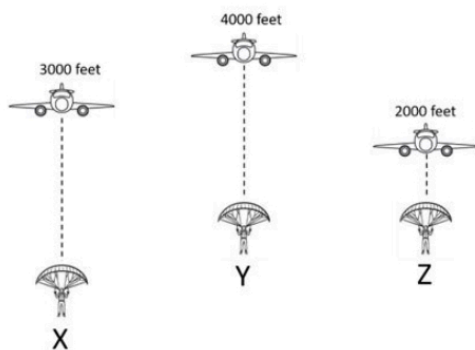
A Girl Starts her Motion in a straight line at a Velocity of 60 m/s, her Velocity is Changing at a Constant Rate. If She Stops after 60 s, what is her Acceleration?

- A.  $-0.5 \text{ m/s}^2$
- B.  $0.5 \text{ m/s}^2$
- C.  $1.0 \text{ m/s}^2$
- D.  $-1.0 \text{ m/s}^2$

S No.15

Item Code	Question Type	Ans Key	Marks
2122015	MCQ	D	1

Which of the men from X, Y, Z will fall faster to the ground when they are jumping from an airplane, ignoring the air resistance.



- A. X
- B. Y
- C. Z
- D. All of them.

S No.16

Item Code	Question Type	Ans Key	Marks
2122016	MCQ	A	1

Under what condition, does a biconvex lens of glass having a certain refractive index act as a plane glass sheet when immersed in a liquid?

- A. When refractive index of lens is equal to the refractive index of liquid.
- B. When refractive index of lens is larger than the refractive index of liquid.
- C. When refractive index of lens is lesser than the refractive index of liquid.
- D. When refractive index of lens is not completely immersed in the liquid.

S No.17

Item Code	Question Type	Ans Key	Marks
2122017	MCQ	A	1

At which spot will it take longer to cook potatoes by boiling in a vessel.



S No.18

Item Code	Question Type	Ans Key	Marks
2132018	MCQ	A	1

Vertices of a quadrilateral ABCD are  $A(0,0)$ ,  $B(4,5)$ ,  $C(9,9)$  and  $D(5,4)$ . What is the shape of the quadrilateral?

- A. Rhombus
- B. Rectangle but not a square
- C. Parallelogram but not a rhombus
- D. Kite

S No.19

Item Code	Question Type	Ans Key	Marks
2132019	NAT	20.5	1

What is the measure of the radius of the circle that circumscribes a triangle whose sides measure 9, 40 and 41?

S No.20

Item Code	Question Type	Ans Key	Marks
2132020	NAT	1890	1

How many diagonals does a 63-sided convex polygon have?

S No.21

Item Code	Question Type	Ans Key	Marks
2132021	NAT	11236	1

A lady grows cabbage in her garden that is in the shape of a square. Each cabbage takes 1 square foot of area in her garden. This year, she has increased her output by 211 cabbages when compared to last year. The shape of the area used for growing the cabbage has remained a square in both these years. How many cabbages did she produce this year?

S No.22

Item Code	Question Type	Ans Key	Marks
2132022	NAT	2	1

What is the radius of the incircle of the triangle whose sides measure 5, 12 and 13 units?  
(Answer to be provided only in units)

S No.23

Item Code	Question Type	Ans Key	Marks
2132023	MCQ	A	1

Choose the correct option

$$2\tan 30^\circ / 1 + \tan^2 30^\circ = ?$$

- A.  $\sin 60^\circ$
- B.  $\cos 60^\circ$
- C.  $\tan 60^\circ$
- D.  $\sin 30^\circ$

S No.24

Item Code	Question Type	Ans Key	Marks
2132024	MCQ	A	1

Choose the correct option

$$\sin 2A = 2 \sin A \text{ is true when } A = ?$$

- A.  $0^\circ$
- B.  $30^\circ$
- C.  $45^\circ$
- D.  $60^\circ$

S No.25

Item Code	Question Type	Ans Key	Marks
2132025	MCQ	D	1

The fraction of total volume occupied by atoms in a simple cube is

- A.  $\pi \div 4$
- B.  $\sqrt{2}\pi \div 8$
- C.  $\sqrt{2}\pi \div 6$
- D.  $\pi \div 6$

S No.26

Item Code	Question Type	Ans Key	Marks
2142026	MCQ	A	1

Choose the mis-spelt word from among the following:

- A. lugagge
- B. baggage
- C. cabbage
- D. garbage

S No.27

Item Code	Question Type	Ans Key	Marks
2142027	MCQ	D	1

Out of the four alternatives, choose the one which best expresses the meaning of the word 'gumption'.

- A. Sagacity
- B. Acumen
- C. Ingenuity
- D. Stupidity

S No.28

Item Code	Question Type	Ans Key	Marks
2142028	MCQ	B	1

Choose from the following, the correct synonym of the given word "persuade".

- A. Conceive
- B. Convince
- C. Oppose
- D. refuse

S No.29

Item Code	Question Type	Ans Key	Marks
2142029	MCQ	A	1

Choose from the following, the correct antonym of the given word “progressive”

- A. Orthodox
- B. Mundane
- C. Rebellion
- D. Uninhibited

S No.30

Item Code	Question Type	Ans Key	Marks
2142030	MCQ	D	1

Choose the correct word that best fits in the blank:

“There weren’t \_\_\_\_\_ students in the lecture.”

- A. more
- B. much
- C. some
- D. many

S No.31

Item Code	Question Type	Ans Key	Marks
2152031	MCQ	D	1

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

TEXT:

The coconut is an unusual food for many reasons. It is technically a seed, produced by the coconut palm tree, and as such is one of the largest edible seeds produced by any plant. Its unusual contents also make it unique in the seed world—the interior consists of both “meat” and “water.” The meat is the white pith with which we are all familiar, as it is used extensively for cooking and flavorings; the coconut water is a white liquid that is very sweet and thirst-quenching.

Portuguese explorers gave the nut its name in the 15th century, referring to it as coco, meaning “ghost” in their language. The three dimples and the hairy texture reminded them of a ghost’s face. It is used to make margarine, as well as various cooking oils. The coconut fluid is a favorite drink in hot climates, providing a cool and refreshing beverage right off the tree. This water is also used by manufacturers of various sports drinks because of its isotonic electrolyte properties.

Even the shell itself has many uses, including cattle food and fertilizer. Coconut oil is used for cosmetics, medicines, and can even be used in place of diesel fuel. Dried coconut shells are used in many countries as a tool, such as a buffer for shining wood floors. The shells are also used for shirt buttons; they are even used for musical instruments and bird houses! And all these are only some of the uses found for the coconut fruit. The coconut palm tree, which produces the nut, also produces countless useful items. It’s no wonder that the coconut palm has been called “the tree of life.”

The word pith used in the first para of the text; most nearly means \_\_\_\_\_?

- A. helmet.
- B. hairy material.
- C. black.
- D. meaty substance.

S No.32

Item Code	Question Type	Ans Key	Marks
2152032	MCQ	B	1

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

TEXT:

The coconut is an unusual food for many reasons. It is technically a seed, produced by the coconut palm tree, and as such is one of the largest edible seeds produced by any plant. Its unusual contents also make it unique in the seed world—the interior consists of both “meat” and “water.” The meat is the white pith with which we are all familiar, as it is used extensively for cooking and flavorings; the coconut water is a white liquid that is very sweet and thirst-quenching.

Portuguese explorers gave the nut its name in the 15th century, referring to it as coco, meaning “ghost” in their language. The three dimples and the hairy texture reminded them of a ghost’s face. It is used to make margarine, as well as various cooking oils. The coconut fluid is a favorite drink in hot climates, providing a cool and refreshing beverage right off the tree. This water is also used by manufacturers of various sports drinks because of its isotonic electrolyte properties.

Even the shell itself has many uses, including cattle food and fertilizer. Coconut oil is used for cosmetics, medicines, and can even be used in place of diesel fuel. Dried coconut shells are used in many countries as a tool, such as a buffer for shining wood floors. The shells are also used for shirt buttons; they are even used for musical instruments and bird houses! And all these are only some of the uses found for the coconut fruit. The coconut palm tree, which produces the nut, also produces countless useful items. It’s no wonder that the coconut palm has been called “the tree of life.”

What is the main focus of this passage?

- A. the history of coconuts
- B. coconut trees have many uses
- C. how cooking oil is made
- D. Portuguese discoveries

S No.33

Item Code	Question Type	Ans Key	Marks
2152033	MCQ	A	1

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

TEXT:

The coconut is an unusual food for many reasons. It is technically a seed, produced by the coconut palm tree, and as such is one of the largest edible seeds produced by any plant. Its unusual contents also make it unique in the seed world—the interior consists of both “meat” and “water.” The meat is the white pith with which we are all familiar, as it is used extensively for cooking and flavorings; the coconut water is a white liquid that is very sweet and thirst-quenching.

Portuguese explorers gave the nut its name in the 15th century, referring to it as coco, meaning “ghost” in their language. The three dimples and the hairy texture reminded them of a ghost’s face. It is used to make margarine, as well as various cooking oils. The coconut fluid is a favorite drink in hot climates, providing a cool and refreshing beverage right off the tree. This water is also used by manufacturers of various sports drinks because of its isotonic electrolyte properties.

Even the shell itself has many uses, including cattle food and fertilizer. Coconut oil is used for cosmetics, medicines, and can even be used in place of diesel fuel. Dried coconut shells are used in many countries as a tool, such as a buffer for shining wood floors. The shells are also used for shirt buttons; they are even used for musical instruments and bird houses! And all these are only some of the uses found for the coconut fruit. The coconut palm tree, which produces the nut, also produces countless useful items. It’s no wonder that the coconut palm has been called “the tree of life.”

The passage implies that

- A. coconut palms are a valuable plant.
- B. coconut oil is the best way to cook.
- C. Portuguese explorers loved coconuts.
- D. coconut palms are good shade trees.

S No.34

Item Code	Question Type	Ans Key	Marks
2152034	MCQ	D	1

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

TEXT:

The coconut is an unusual food for many reasons. It is technically a seed, produced by the coconut palm tree, and as such is one of the largest edible seeds produced by any plant. Its unusual contents also make it unique in the seed world—the interior consists of both “meat” and “water.” The meat is the white pith with which we are all familiar, as it is used extensively for cooking and flavorings; the coconut water is a white liquid that is very sweet and thirst-quenching.

Portuguese explorers gave the nut its name in the 15th century, referring to it as coco, meaning “ghost” in their language. The three dimples and the hairy texture reminded them of a ghost’s face. It is used to make margarine, as well as various cooking oils. The coconut fluid is a favorite drink in hot climates, providing a cool and refreshing beverage right off the tree. This water is also used by manufacturers of various sports drinks because of its isotonic electrolyte properties.

Even the shell itself has many uses, including cattle food and fertilizer. Coconut oil is used for cosmetics, medicines, and can even be used in place of diesel fuel. Dried coconut shells are used in many countries as a tool, such as a buffer for shining wood floors. The shells are also used for shirt buttons; they are even used for musical instruments and bird houses! And all these are only some of the uses found for the coconut fruit. The coconut palm tree, which produces the nut, also produces countless useful items. It’s no wonder that the coconut palm has been called “the tree of life.”

Which of the following is NOT a use for the coconut shell?

- A. polishing wooden floors
- B. musical instruments
- C. shirt buttons
- D. diesel fuel

S No.35

Item Code	Question Type	Ans Key	Marks
2152035	MCQ	D	1

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

TEXT:

The human body can tolerate only a small range of temperature, especially when the person is engaged in vigorous activity. Heat reactions usually occur when large amounts of water and/or salt are lost through excessive sweating following strenuous exercise. When the body becomes overheated and cannot eliminate this excess heat, heat exhaustion and heat stroke are possible. Heat exhaustion is generally characterized by clammy skin, fatigue, nausea, dizziness, profuse perspiration, and sometimes fainting, resulting from an inadequate intake of water and the loss of fluids.

First aid treatment for this condition includes having the victim lie down, raising the feet 8 to 12 inches, applying cool, wet cloths to the skin, and giving the victim sips of salt water (1 teaspoon per glass, half a glass every 15 minutes) over a 1-hour period. Heat stroke is much more serious; it is an immediate life-threatening situation. The characteristics of heat stroke are a high body temperature (which may reach 106° F or more); a rapid pulse; hot, dry skin; and a blocked sweating mechanism. Victims of this condition may be unconscious, and first-aid measures should be directed at quickly cooling the body. The victim should be placed in a tub of cold water or repeatedly sponged with cool water until his or her temperature is sufficiently lowered. Fans or air conditioners will also help with the cooling process. Care should be taken, however, not to over-chill the victim once the temperature is below 102° F.

The most immediate concern of a person tending to a victim of heat stroke should be to \_\_\_\_\_.

- A. gets salt into the victim's body.
- B. raises the victim's feet.
- C. lowers the victim's pulse.
- D. lowers the victim's temperature.

S No.36

Item Code	Question Type	Ans Key	Marks
2152036	MCQ	B	1

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

TEXT:

The human body can tolerate only a small range of temperature, especially when the person is engaged in vigorous activity. Heat reactions usually occur when large amounts of water and/or salt are lost through excessive sweating following strenuous exercise. When the body becomes overheated and cannot eliminate this excess heat, heat exhaustion and heat stroke are possible. Heat exhaustion is generally characterized by clammy skin, fatigue, nausea, dizziness, profuse perspiration, and sometimes fainting, resulting from an inadequate intake of water and the loss of fluids.

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Which of the following is a symptom of heat exhaustion?

- A. unconsciousness
- B. profuse sweating
- C. hot, dry skin
- D. a weak pulse

S No.37

Item Code	Question Type	Ans Key	Marks
2152037	MCQ	A	1

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

TEXT:

The human body can tolerate only a small range of temperature, especially when the person is engaged in vigorous activity. Heat reactions usually occur when large amounts of water and/or salt are lost through excessive sweating following strenuous exercise. When the body becomes overheated and cannot eliminate this excess heat, heat exhaustion and heat stroke are possible. Heat exhaustion is generally characterized by clammy skin, fatigue, nausea, dizziness, profuse perspiration, and sometimes fainting, resulting from an inadequate intake of water and the loss of fluids.

First aid treatment for this condition includes having the victim lie down, raising the feet 8 to 12 inches, applying cool, wet cloths to the skin, and giving the victim sips of salt water (1 teaspoon per glass, half a glass every 15 minutes) over a 1-hour period. Heat stroke is much more serious; it is an immediate life-threatening situation. The characteristics of heat stroke are a high body temperature (which may reach 106° F or more); a rapid pulse; hot, dry skin; and a blocked sweating mechanism. Victims of this condition may be unconscious, and first-aid measures should be directed at quickly cooling the body. The victim should be placed in a tub of cold water or repeatedly sponged with cool water until his or her temperature is sufficiently lowered. Fans or air conditioners will also help with the cooling process. Care should be taken, however, not to over-chill the victim once the temperature is below 102° F.

Heat stroke is more serious than heat exhaustion because heat stroke victims

\_\_\_\_\_.

- A. do not sweat.
- B. have no salt in their bodies.
- C. cannot take in water.
- D. have frequent fainting spells

S No.38

Item Code	Question Type	Ans Key	Marks
2152038	MCQ	B	1

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

TEXT:

The human body can tolerate only a small range of temperature, especially when the person is engaged in vigorous activity. Heat reactions usually occur when large amounts of water and/or salt are lost through excessive sweating following strenuous exercise. When the body becomes overheated and cannot eliminate this excess heat, heat exhaustion and heat stroke are possible. Heat exhaustion is generally characterized by clammy skin, fatigue, nausea, dizziness, profuse perspiration, and sometimes fainting, resulting from an inadequate intake of water and the loss of fluids.

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Symptoms such as nausea and dizziness in a heat exhaustion victim indicate that the person most likely needs to \_\_\_\_\_.

- A. be immediately taken to a hospital.
- B. be given more salt water.
- C. be immersed in a tub of water.
- D. sweat more.

S No.39

Item Code	Question Type	Ans Key	Marks
2152039	MCQ	C	1

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

TEXT:

The Indian Army is the land-based branch and the largest component of the Indian Armed Forces. The President of India is the Supreme Commander of the Indian Army, and it is commanded by the Chief of Army Staff (COAS), who is a four-star general. Two officers have been conferred with the rank of field marshal, a five-star rank, which is a ceremonial position of great honour. The Indian Army originated from the armies of the East India Company, which eventually became the British Indian Army, and the armies of the princely states, which finally became the national army after independence. The units and regiments of the Indian Army have diverse histories and have participated in a number of battles and campaigns across the world, earning a large number of battle and theatre honours before and after Independence.

The primary mission of the Indian Army is to ensure national security and national unity, defending the nation from external aggression and internal threats, and maintaining peace and security within its borders. It conducts humanitarian rescue operations during natural calamities and other disturbances, like Operation Surya Hope, and can also be requisitioned by the government to cope with internal threats. It is a major component of national power alongside the Indian Navy and the Indian Air Force. The army has been involved in four wars with neighbouring Pakistan and one with China. Other major operations undertaken by the army include: Operation Vijay, Operation Meghdoot and Operation Cactus. Apart from conflicts, the army has conducted large peace time exercises like Operation Brasstacks and Exercise Shoorveer, and it has also been an active participant in numerous United Nations peacekeeping missions including those in: Cyprus, Lebanon, Congo, Angola, Cambodia, Vietnam, Namibia, El Salvador, Liberia, Mozambique and Somalia.

The Indian Army has a regimental system, but is operationally and geographically divided into seven commands, with the basic field formation being a division. It is an all-volunteer force and comprises more than 80% of the country's active defence personnel. It is the 2nd largest standing army in the world, with 1,237,117 active troops and 960,000 reserve troops. The army has embarked on an infantry modernisation program known as Futuristic Infantry Soldier as a System (F-INSAS), and is also upgrading and acquiring new assets for its armoured, artillery and aviation branches

Who has a 5-star rank in the Indian Army?

- A. Chief of Army Staff
- B. President of India
- C. Field Marshal
- D. Lieutenant Governor

S No.40

Item Code	Question Type	Ans Key	Marks
2152040	MCQ	B	1

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

TEXT:

The Indian Army is the land-based branch and the largest component of the Indian Armed Forces. The President of India is the Supreme Commander of the Indian Army, and it is commanded by the Chief of Army Staff (COAS), who is a four-star general. Two officers have been conferred with the rank of field marshal, a five-star rank, which is a ceremonial position of great honour. The Indian Army originated from the armies of the East India Company, which eventually became the British Indian Army, and the armies of the princely states, which finally became the national army after independence. The units and regiments of the Indian Army have diverse histories and have participated in a number of battles and campaigns across the world, earning a large number of battle and theatre honours before and after Independence.

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What is the basic field formation in the India Army?

- A. The regiment
- B. The division
- C. The infantry
- D. Aviation

S No.41

Item Code	Question Type	Ans Key	Marks
2152041	MCQ	A	1

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

TEXT:

The Indian Army is the land-based branch and the largest component of the Indian Armed Forces. The President of India is the Supreme Commander of the Indian Army, and it is commanded by the Chief of Army Staff (COAS), who is a four-star general. Two officers have been conferred with the rank of field marshal, a five-star rank, which is a ceremonial position of great honour. The Indian Army originated from the armies of the East India Company, which eventually became the British Indian Army, and the armies of the princely states, which finally became the national army after independence. The units and regiments of the Indian Army have diverse histories and have participated in a number of battles and campaigns across the world, earning a large number of battle and theatre honours before and after Independence.

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Which of the following is not an operation of the Indian Army

- A. Operation Trident
- B. Operation Vijay
- C. Operation Meghdoot
- D. Operation Surya Hope

S No.42

Item Code	Question Type	Ans Key	Marks
2152042	MCQ	C	1

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

TEXT:

The Indian Army is the land-based branch and the largest component of the Indian Armed Forces. The President of India is the Supreme Commander of the Indian Army, and it is commanded by the Chief of Army Staff (COAS), who is a four-star general. Two officers have been conferred with the rank of field marshal, a five-star rank, which is a ceremonial position of great honour. The Indian Army originated from the armies of the East India Company, which eventually became the British Indian Army, and the armies of the princely states, which finally became the national army after independence. The units and regiments of the Indian Army have diverse histories and have participated in a number of battles and campaigns across the world, earning a large number of battle and theatre honours before and after Independence.

The primary mission of the Indian Army is to ensure national security and national unity, defending the nation from external aggression and internal threats, and maintaining peace and security within its borders. It conducts humanitarian rescue operations during natural calamities and other disturbances, like Operation Surya Hope, and can also be requisitioned by the government to cope with internal threats. It is a major component of national power alongside the Indian Navy and the Indian Air Force. The army has been involved in four wars with neighbouring Pakistan and one with China. Other major operations undertaken by the army include: Operation Vijay, Operation Meghdoot and Operation Cactus. Apart from conflicts, the army has conducted large peace time exercises like Operation Brasstacks and Exercise Shoorveer, and it has also been an active participant in numerous United Nations peacekeeping missions including those in: Cyprus, Lebanon, Congo, Angola, Cambodia, Vietnam, Namibia, El Salvador, Liberia, Mozambique and Somalia.

The Indian Army has a regimental system, but is operationally and geographically divided into seven commands, with the basic field formation being a division. It is an all-volunteer force and comprises more than 80% of the country's active defence personnel. It is the 2nd largest standing army in the world, with 1,237,117 active troops and 960,000 reserve troops. The army has embarked on an infantry modernisation program known as Futuristic Infantry Soldier as a System (F-INSAS), and is also upgrading and acquiring new assets for its armoured, artillery and aviation branches

What are the components of national power?

- A. Navy is the only component
- B. Government
- C. Combination of Navy, Army and Air force
- D. Army and Navy are the main components

S No.43

Item Code	Question Type	Ans Key	Marks
2152043	MCQ	C	1

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

TEXT:

Holi celebrations start on the night before Holi with a Holika Dahan where people gather, perform religious rituals in front of the bonfire, and pray that their internal evil be destroyed the way Holika, the sister of the demon king Hiranyakashipu, was killed in the fire. The next morning is celebrated as Rangwali Holi – a free-for-all festival of colours, where people smear each other with colours and drench each other. Water guns and water-filled balloons are also used to play and colour each other. Anyone and everyone is fair game, friend or stranger, rich or poor, man or woman, children and elders. The frolic and fight with colours occurs in the open streets, open parks, outside temples and buildings. Groups carry drums and other musical instruments, go from place to place, sing and dance. People visit family, friends and foes to throw coloured powders on each other, laugh and gossip, then share Holi delicacies, food and drinks. Some customary drinks include bhang (made from cannabis), which is intoxicating. In the evening, after sobering up, people dress up and visit friends and family.

Why is Holika Dahan performed?

- A. Because it is quite cold and everyone loves a bonfire
- B. Because it symbolizes the end of destruction of the evil enemies
- C. Because it symbolizes the end of destruction of our internal evil
- D. Because Holika was King Hiranyakashipu's sister.

S No.44

Item Code	Question Type	Ans Key	Marks
2152044	MCQ	C	1

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

TEXT:

Holi celebrations start on the night before Holi with a Holika Dahan where people gather, perform religious rituals in front of the bonfire, and pray that their internal evil be destroyed the way Holika, the sister of the demon king Hiranyakashipu, was killed in the fire. The next morning is celebrated as Rangwali Holi – a free-for-all festival of colours, where people smear each other with colours and drench each other. Water guns and water-filled balloons are also used to play and colour each other. Anyone and everyone is fair game, friend or stranger, rich or poor, man or woman, children and elders. The frolic and fight with colours occurs in the open streets, open parks, outside temples and buildings. Groups carry drums and other musical instruments, go from place to place, sing and dance. People visit family, friends and foes to throw coloured powders on each other, laugh and gossip, then share Holi delicacies, food and drinks. Some customary drinks include bhang (made from cannabis), which is intoxicating. In the evening, after sobering up, people dress up and visit friends and family.

Choose the statement(s) that summarize the entire passage

- (i) There are two types of Holi – Holika Dahan & Rangwali Holi
- (ii) People do not celebrate it with their foes
- (iii) Food and Drinks are the heart of Holi celebrations
- (iv) Holi symbolizes the destruction of our inner evil and demons

- A. (i), (ii), (iii), (iv)
- B. (i), (ii), (iv)
- C. (i), (iii), (iv)
- D. (i), (ii) (iii)

S No.45

Item Code	Question Type	Ans Key	Marks
2152045	MCQ	D	1

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

TEXT:

Holi celebrations start on the night before Holi with a Holika Dahan where people gather, perform religious rituals in front of the bonfire, and pray that their internal evil be destroyed the way Holika, the sister of the demon king Hiranyakashipu, was killed in the fire. The next morning is celebrated as Rangwali Holi – a free-for-all festival of colours, where people smear each other with colours and drench each other. Water guns and water-filled balloons are also used to play and colour each other. Anyone and everyone is fair game, friend or stranger, rich or poor, man or woman, children and elders. The frolic and fight with colours occurs in the open streets, open parks, outside temples and buildings. Groups carry drums and other musical instruments, go from place to place, sing and dance. People visit family, friends and foes to throw coloured powders on each other, laugh and gossip, then share Holi delicacies, food and drinks. Some customary drinks include bhang (made from cannabis), which is intoxicating. In the evening, after sobering up, people dress up and visit friends and family.

Which word or phrase in the second para of the passage means a state 'out of intoxication'?

- A. Free for all
- B. Cannabis
- C. Fair game
- D. Sobering up

S No.46

Item Code	Question Type	Ans Key	Marks
2152046	MCQ	A	1

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

TEXT:

Holi celebrations start on the night before Holi with a Holika Dahan where people gather, perform religious rituals in front of the bonfire, and pray that their internal evil be destroyed the way Holika, the sister of the demon king Hiranyakashipu, was killed in the fire. The next morning is celebrated as Rangwali Holi – a free-for-all festival of colours, where people smear each other with colours and drench each other. Water guns and water-filled balloons are also used to play and colour each other. Anyone and everyone is fair game, friend or stranger, rich or poor, man or woman, children and elders. The frolic and fight with colours occurs in the open streets, open parks, outside temples and buildings. Groups carry drums and other musical instruments, go from place to place, sing and dance. People visit family, friends and foes to throw coloured powders on each other, laugh and gossip, then share Holi delicacies, food and drinks. Some customary drinks include bhang (made from cannabis), which is intoxicating. In the evening, after sobering up, people dress up and visit friends and family.

Describe the type of adjective of the underlined word:

“People visit family, friends and foes to throw colored powders on each other; laugh and gossip, then share Holi delicacies, food and drinks.”

- A. Adjective of quality
- B. Adjective of quantity
- C. Numeral adjective
- D. Demonstrative adjective

S No.47

Item Code	Question Type	Ans Key	Marks
2152047	MCQ	B	1

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

#### TEXT

“A principal fruit of friendship,” Francis Bacon wrote in his timeless meditation on the subject, “is the ease and discharge of the fullness and swellings of the heart, which passions of all kinds do cause and induce.” For Thoreau, friendship was one of life’s great rewards. But in today’s cultural landscape of muddled relationships scattered across various platforms for connecting, amidst constant debates about whether our Face book “friendships” are making us more or less happy, it pays to consider what friendship actually is. That’s precisely what CUNY philosophy professor Massimo Pigliucci explores in Answers for Aristotle: How Science and Philosophy Can Lead Us to A More Meaningful Life (public library), which also gave us this provocative read on the science of what we call “intuition.”

Philosophers and cognitive scientists agree that friendship is an essential ingredient of human happiness. But beyond the dry academic definitions — like, say, “voluntary interdependence between two persons over time, which is intended to facilitate socio-emotional goals of the participants, and may involve varying types and degrees of companionship, intimacy, affection and mutual assistance” — lies a body of compelling research that sheds light on how, precisely, friendship augments happiness.

The way friendship enhances well-being, it turns out, has nothing to do with quantity and everything to do with quality — researchers confirm that it isn’t the number of friends

Name one change effected in the present situation which hastened a rethinking of the concept of friendship.

- A. Bacon and Thoreau’s theories are no longer available to read
- B. The arrival of social media on the scene
- C. There is more interest in the sciences
- D. Friendships are not possible in the real world anymore, due to over competition

S No.48

Item Code	Question Type	Ans Key	Marks
2152048	MCQ	A	1

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

#### TEXT

“A principal fruit of friendship,” Francis Bacon wrote in his timeless meditation on the subject, “is the ease and discharge of the fullness and swellings of the heart, which passions of all kinds do cause and induce.” For Thoreau, friendship was one of life’s great rewards. But in today’s cultural landscape of muddled relationships scattered across various platforms for connecting, amidst constant debates about whether our Face book “friendships” are making us more or less happy, it pays to consider what friendship actually is. That’s precisely what CUNY philosophy professor Massimo Pigliucci explores in Answers for Aristotle: How Science and Philosophy Can Lead Us to A More Meaningful Life (public library), which also gave us this provocative read on the science of what we call “intuition.”

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The way friendship enhances well-being, it turns out, has nothing to do with quantity and everything to do with quality — researchers confirm that it isn’t the number of friends

Friendship leads to happiness. Is it true?

- A. Yes, researchers have proven that friendship does lead to happiness
- B. No. There is no relationship between friendship and happiness
- C. Friends cannot make each other happy
- D. One needs to find one’s happiness alone, with peace of mind.

S No.49

Item Code	Question Type	Ans Key	Marks
2152049	MCQ	C	1

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

TEXT

“A principal fruit of friendship,” Francis Bacon wrote in his timeless meditation on the subject, “is the ease and discharge of the fullness and swellings of the heart, which passions of all kinds do cause and induce.” For Thoreau, friendship was one of life’s great rewards. But in today’s cultural landscape of muddled relationships scattered across various platforms for connecting, amidst constant debates about whether our Face book “friendships” are making us more or less happy, it pays to consider what friendship actually is. That’s precisely what CUNY philosophy professor Massimo Pigliucci explores in Answers for Aristotle: How Science and Philosophy Can Lead Us to A More Meaningful Life (public library), which also gave us this provocative read on the science of what we call “intuition.”

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The way friendship enhances well-being, it turns out, has nothing to do with quantity and everything to do with quality — researchers confirm that it isn’t the number of friends

Is the quality of friends important?

- A. No, it is more important to have a greater number of friends. Quality does not matter
- B. No, number of comments on social networking sites is important and not the quality of fiends
- C. Yes, it matters
- D. Yes. With quantity comes quality.

S No.50

Item Code	Question Type	Ans Key	Marks
2152050	MCQ	A	1

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

TEXT

“A principal fruit of friendship,” Francis Bacon wrote in his timeless meditation on the subject, “is the ease and discharge of the fullness and swellings of the heart, which passions of all kinds do cause and induce.” For Thoreau, friendship was one of life’s great rewards. But in today’s cultural landscape of muddled relationships scattered across various platforms for connecting, amidst constant debates about whether our Face book “friendships” are making us more or less happy, it pays to consider what friendship actually is. That’s precisely what CUNY philosophy professor Massimo Pigliucci explores in Answers for Aristotle: How Science and Philosophy Can Lead Us to A More Meaningful Life (public library), which also gave us this provocative read on the science of what we call “intuition.”

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The way friendship enhances well-being, it turns out, has nothing to do with quantity and everything to do with quality — researchers confirm that it isn’t the number of friends

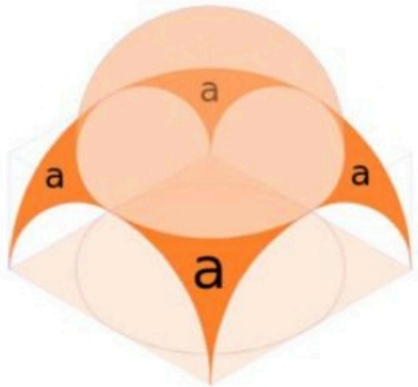
What is the antonym of ‘augment’?

- A. Diminishes
- B. Amplifies
- C. Increases
- D. boosts

S No.51

Item Code	Question Type	Ans Key	Marks
2162051	MCQ	D	1

Typically, what is the architectural element indicated as 'a' called



- A. Flying Buttress
- B. Vault
- C. Domical vault
- D. Pendentive

S No.52

Item Code	Question Type	Ans Key	Marks
2162052	MCQ	A	1

Identify the tile with the traditional design?



- A. Athangudi tiles
- B. Moroccan painted tile
- C. Molela Art tiles
- D. Polymer Clay tile

S No.53

Item Code	Question Type	Ans Key	Marks
2162053	MCQ	C	1

Rock wool which has got good insulation properties comes under which of the following classifications of absorbents?

- A. Resonant panels
- B. Cavity resonators
- C. Porous materials
- D. Composite types

S No.54

Item Code	Question Type	Ans Key	Marks
2162054	MCQ	D	1

Which of the following tools is used for cutting soft bricks?

- A. Spirit level
- B. Hawk
- C. Plumb line
- D. Scutch hammer

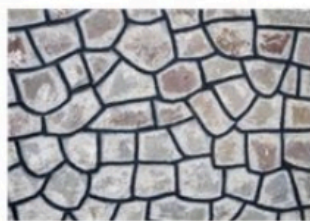
S No.55

Item Code	Question Type	Ans Key	Marks
2162055	MCQ	A	1

Pick the ODD image out of the following:



A



B



C



D

S No.56

Item Code	Question Type	Ans Key	Marks
2172056	MCQ	B	1

Identify the following object:



- A. Wick Stove
- B. Primus stove
- C. Induction Stove
- D. Biomass Stove

S No.57

Item Code	Question Type	Ans Key	Marks
2172057	MCQ	B	1

Who quoted '*Buildings too are children of the earth and sun*'?

- A. Abraham Lincoln
- B. Frank Lloyd Wright
- C. Picasso
- D. Mahatma Gandhi

S No.58

Item Code	Question Type	Ans Key	Marks
2172058	MCQ	C	1

Identify the structure shown in the photograph.



- A. Apple One
- B. Apple World
- C. Apple Park
- D. Planet Apple

S No.59

Item Code	Question Type	Ans Key	Marks
2172059	MCQ	D	1

Who is the architect of '*Vidyadhar Nagar, Jaipur*'?

- A. Charles Correa
- B. M Vishveswaraiyya
- C. Fumihiko Maki
- D. B V Doshi

S No.60

Item Code	Question Type	Ans Key	Marks
2172060	MCQ	C	1

Who said “ *When we build, let’s think that we build forever*”.

- A. Johann Wolfgang von Goethe
- B. Louis Sullivan
- C. John Ruskin
- D. Rabindranath Tagore

S No.61

Item Code	Question Type	Ans Key	Marks
2172061	MCQ	C	1

Which among the following is known as India’s first fully solar powered village?

- A. Chitrakoot, Uttar Pradesh
- B. Damoh, Madhya Pradesh
- C. Modhera, Gujarat
- D. Agasthiyamalai, TN

S No.62

Item Code	Question Type	Ans Key	Marks
2172062	MCQ	D	1

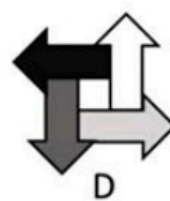
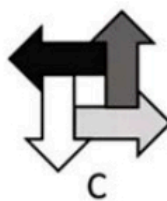
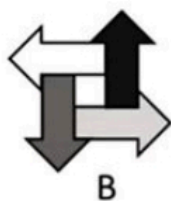
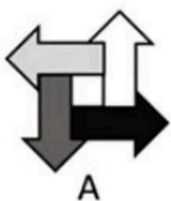
The famous Fort St. George built by the \_\_\_\_\_ in India is situated in \_\_\_\_\_.

- A. French, Pondicherry
- B. Dutch, Cochin
- C. Portuguese, Goa
- D. British, Chennai

S No.63

Item Code	Question Type	Ans Key	Marks
2182063	MCQ	D	2

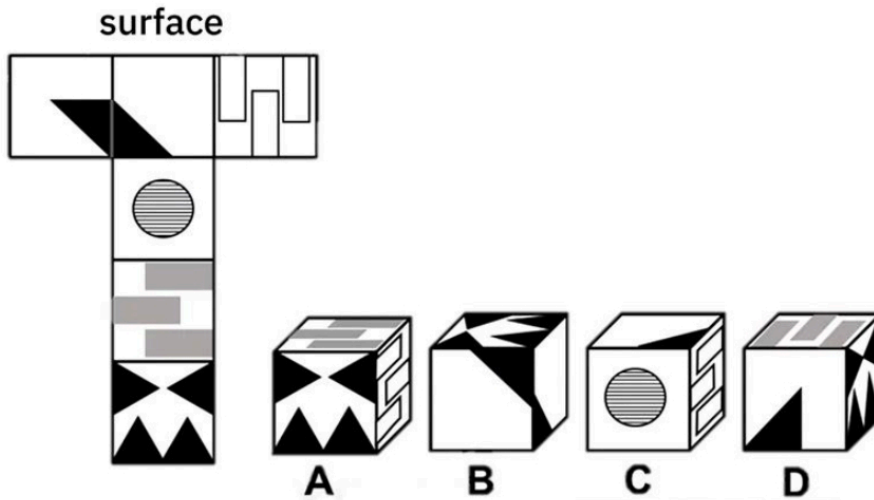
Which of the following options happen when the set of elements as given are put together?



S No.64

Item Code	Question Type	Ans Key	Marks
2182064	MCQ	A	2

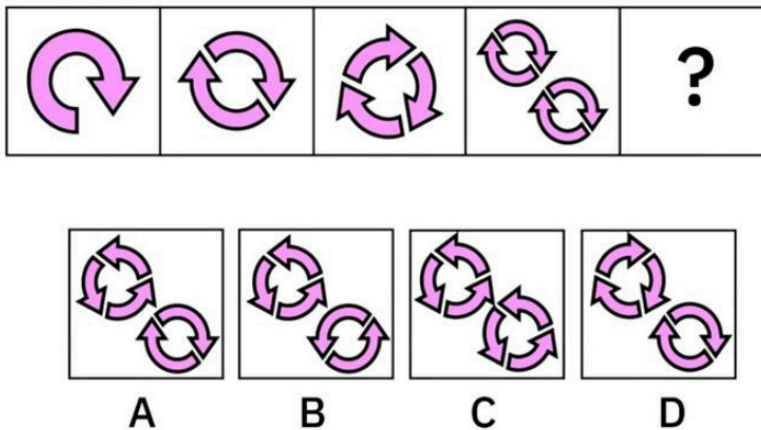
The given surface can be folded into which of the following cubes?



S No.65

Item Code	Question Type	Ans Key	Marks
2182065	MCQ	D	2

Identify the pattern which logically replaces the question mark in the given sequence.



S No.66

Item Code	Question Type	Ans Key	Marks
2182066	MCQ	A	2

Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

A \_bbc\_aab\_cca\_bbcc

- A) acba
- B) bacb
- C) caba
- D) abba

S No.67

Item Code	Question Type	Ans Key	Marks
2182067	MCQ	C	2

Find the next alphabet in this sequence.

A, C, F, J, O?

- A) L
- B) M
- C) U
- D) W

S No.68

Item Code	Question Type	Ans Key	Marks
2192068	MSQ	B,E,F,G,C (Full marks to be awarded if any 4 answers are correct)	2

Choose any **four most appropriate visual/ design attributes** that can be commonly observed in the given image.

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



- A. Distortion
- B. Analogous
- C. Depth
- D. Asymmetry
- E. Repetition
- F. Verticality
- G. Lightness
- H. Emphasis

S No.69

Item Code	Question Type	Ans Key	Marks
2192069	MSQ	A,C,D,F	2

Choose any **four design attributes** which are suitable to the given composition  
(Marks will be awarded only if all answers are right)



- A. Focus
- B. Divergent
- C. Texture
- D. Contrast
- E. Movement
- F. Repetition
- G. Foreground and background
- H. Datum

S No.70

Item Code	Question Type	Ans Key	Marks
2192070	MSQ	B,F,G,H	2

Choose any four most appropriate principles/ elements of design which can be commonly observed in the given image

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



- A) Analogous colour
- B) Complementary colour
- C) Fluidity
- D) Rhythm
- E) Symmetry
- F) Stability
- G) Contrast
- H) Datum

S No.71

Item Code	Question Type	Ans Key	Marks
21102071	MCQ	C	1

Image of the famous building shown below is well known as



- A. Cocoon
- B. Geodesic dome
- C. Bird's Nest
- D. Space Shuttle

S No.72

Item Code	Question Type	Ans Key	Marks
21102072	MCQ	B	1

The Great Bath is situated in which of the Indus Valley settlements?



- A. Lothal
- B. Mohenjo Daro
- C. Harappa
- D. Dholavira

S No.73

Item Code	Question Type	Ans Key	Marks
21102073	MCQ	A	1

Identify the type of staircase shown in the given image.



- A. Helical staircase
- B. C Shaped staircase
- C. Spiral staircase
- D. Cylindrical staircase

S No.74

Item Code	Question Type	Ans Key	Marks
21102074	MCQ	B	1

Choose the ODD image out.



A



B



C



D

S No.75

Item Code

Question Type

Ans Key

Marks

21102075

MCQ

C

1

The 4 x 4 (2003) house (on the left) designed by Tadao Ando in Hyogo, Japan; has a twin (on the right) designed by the same architect but constructed with different materials. What are they?



- A. Concrete and Steel
- B. Stone and Concrete
- C. Concrete and Wood
- D. Concrete and Aluminum panels

S No.76

Item Code

Question Type

Ans Key

Marks

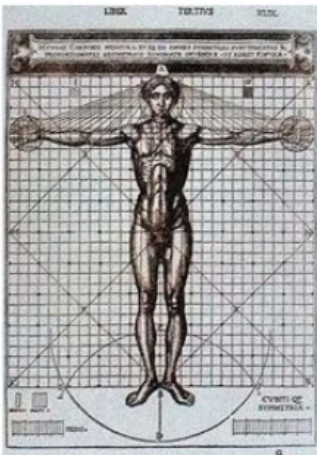
21112076

MCQ

A

2

This famous drawing on human proportions is drawn by whom?



- A. Vitruvius
- B. Paul Klee
- C. Leonardo Da Vinci
- D. Le Corbusier

S No.77

Item Code	Question Type	Ans Key	Marks
21112077	MCQ	C	2

Name the country from this flag



- A. Chile
- B. Austria
- C. Ukraine
- D. Sri Lanka

S No.78

Item Code	Question Type	Ans Key	Marks
21112078	MCQ	A	2

What is the name of this traditional game played in the Indian Subcontinent?



- A. Bagh Chal
- B. Pachisi
- C. Bhatukli
- D. Chaduranga

S No.79

Item Code	Question Type	Ans Key	Marks
21112079	MCQ	D	2

Image shown below is part of a logo. Identify.



- A. Archeological Survey of India
- B. State Archeology Department
- C. National Museum
- D. Indian Institute of Architects

S No.80

Item Code

Question Type

Ans Key

Marks

21112080

MCQ

D

2

Identify the historical monument



- A. Madhav Rao Scindia Mahal
- B. Amber, Rajasthan
- C. Jaipur Palace
- D. Mysore Palace

S No.81

Item Code

Question Type

Ans Key

Marks

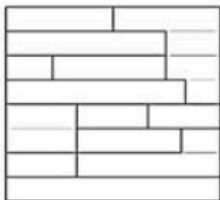
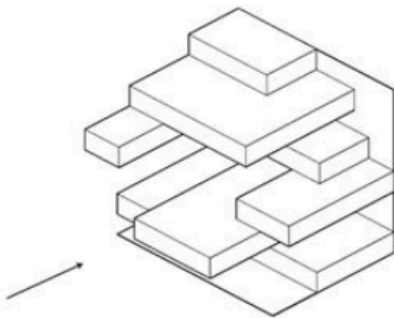
21122081

MCQ

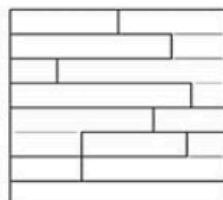
C

2

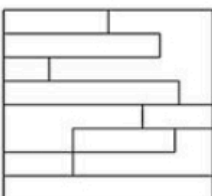
Identify the correct side (front) view for the given 3D volume (as indicated by the arrow) from the options given below



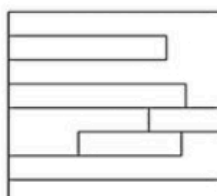
(A)



(B)



(C)

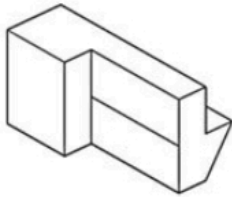
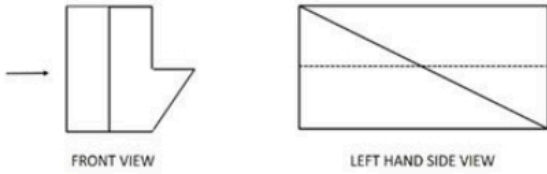


(D)

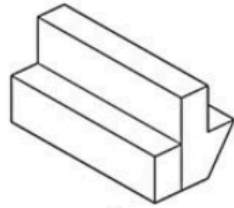
S No.82

Item Code	Question Type	Ans Key	Marks
21122082	MCQ	D	2

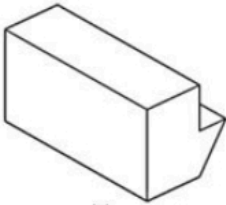
Identify the correct 3D figure from amongst the answer figures, which has the top view, front view, and right-side view, as given in the problem figure, looking in the direction of the arrow.



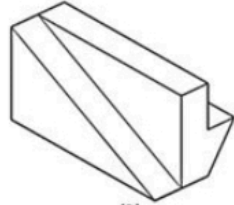
(A)



(B)



(C)

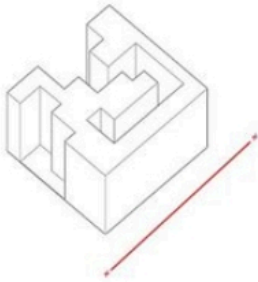


(D)

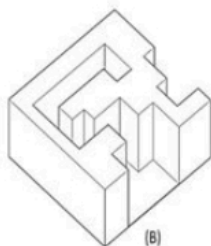
S No.83

Item Code	Question Type	Ans Key	Marks
21122083	MCQ	A	2

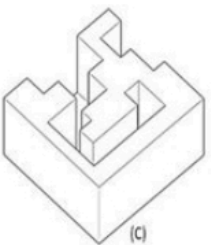
Identify the correct mirror view for the given 3 D volume.



(A)



(B)



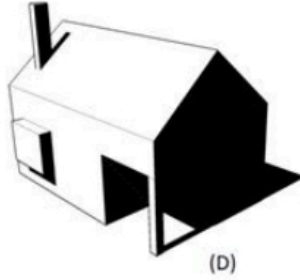
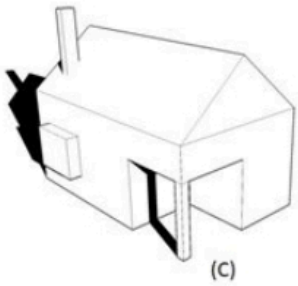
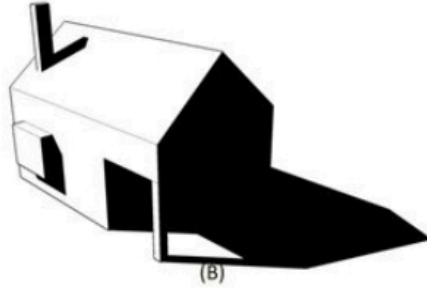
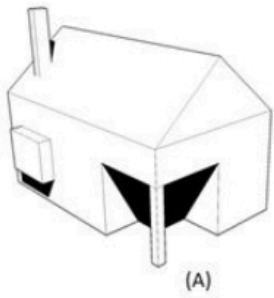
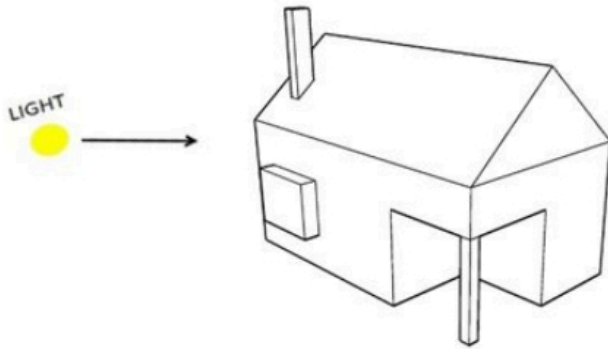
(C)



(D)

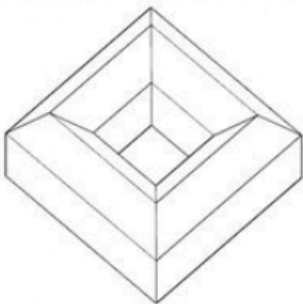
Item Code	Question Type	Ans Key	Marks
21122084	MCQ	B	2

If the arrow marks the direction of light, which will be the image of the object with the correct shadow from the given answer options?

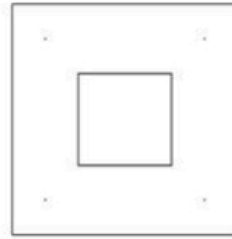
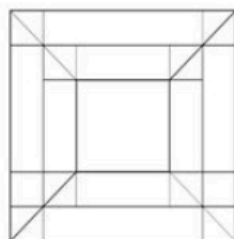
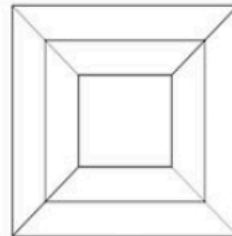
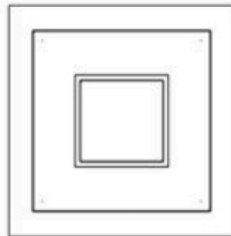


Item Code	Question Type	Ans Key	Marks
21122085	MCQ	B	2

Identify the correct TOP view for the given 3D form



Given volume



S No.86

Item Code	Question Type	Ans Key	Marks
21132086	MCQ	D	2

This is a famous work of Vincent van Gogh. What is the name of the painting?



- A. Blue night
- B. Cloudy sky
- C. Night star
- D. Starry night

S No.87

Item Code	Question Type	Ans Key	Marks
21132087	MCQ	C	2

What is the emotion/ attribute that is associated with the colour **BROWN**?

- A. Neutral, formal, gloomy
- B. Clean, virtuous, healthy
- C. Earthy, sturdy, rustic
- D. Luxurious, mysterious, romantic

S No.88

Item Code	Question Type	Ans Key	Marks
21132088	MCQ	A	2

In the 12 colors colour wheel derive from the RGB colour wheel what is the colour opposite RED?

- A. Green
- B. Purple
- C. Blue
- D. Orange

S No.89

Item Code	Question Type	Ans Key	Marks
21132089	MCQ	B	2

Identify the appropriate style of painting in the given picture.

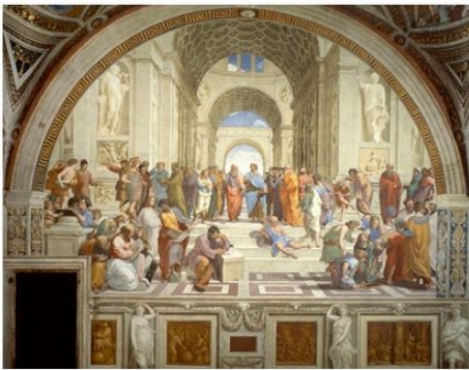


- A. Drip painting
- B. Action painting
- C. Pointilism
- D. Gore artwork

S No.90

Item Code	Question Type	Ans Key	Marks
21132090	MCQ	A	2

This type of artwork belongs to a particular style. Identify



- A. Renaissance
- B. Medieval
- C. Tudor
- D. Roman

S No.91

Item Code	Question Type	Ans Key	Marks
21142091	MSQ	A,B,D,G	2

Identify the **four** most important visual principles in the given two dimensional black and white compositions

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



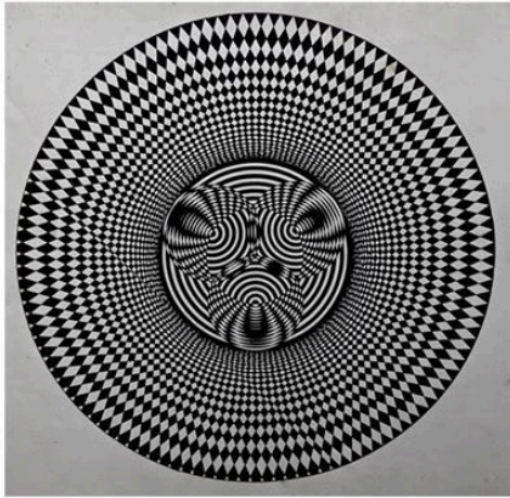
- A. Balance
- B. Focal point
- C. Symmetry
- D. Contrast
- E. Depth
- F. Rhythm
- G. Foreground and Background
- H. Axis

S No.92

Item Code	Question Type	Ans Key	Marks
21142092	MSQ	C,D,E,G,H (Full marks to be awarded if any 4 answers are correct)	2

Identify the **four** most important visual principles/ elements in the given black and white photograph given below.

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



- A. Foreground and background
- B. Datum
- C. Depth
- D. Distortion
- E. Pattern
- F. Texture
- G. Repetition
- H. Contrast

S No.93

Item Code	Question Type	Ans Key	Marks
21142093	MSQ	A,D,E,G	2

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

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



- A) Focus
- B) Golden rectangle
- C) Symmetry
- D) Contrast
- E) Complementary colours
- F) Triadic colours
- G) Foreground and background
- H) Dynamic

S No.94

Item Code	Question Type	Ans Key	Marks
21152094	MCQ	A	2

Identify the artist from the sketch.



- A. Manjit Bawa
- B. Picasso
- C. Henry Matisse
- D. Satish Gujral

S No.95

Item Code	Question Type	Ans Key	Marks
21152095	MCQ	D	2

A popular Chair designed by Ar. Eero Saarinen is well known as \_\_\_\_\_

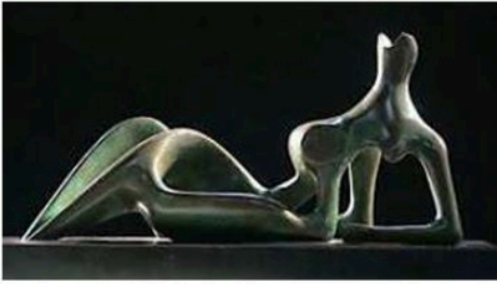


- A. A wine glass chair
- B. White and Red chair
- C. Bucket chair
- D. Tulip chair

S No.96

Item Code	Question Type	Ans Key	Marks
21152096	MCQ	B	2

Identify the artist of the famous work shown below:



- A. Henry Matisse
- B. Henry Moore
- C. Henry Adams
- D. Anish Kapoor

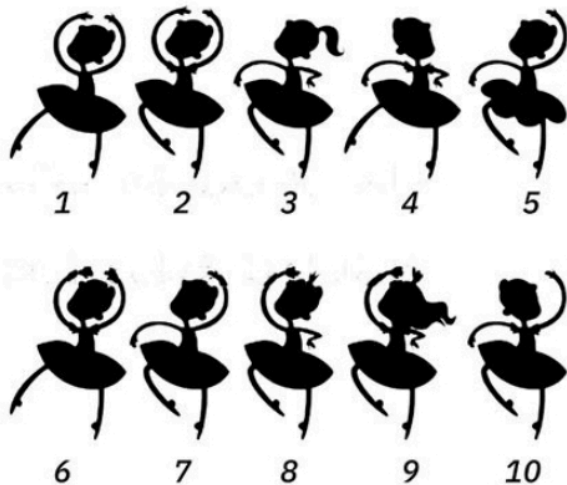
S No.97

Item Code	Question Type	Ans Key	Marks
21162097	NAT	7	3

Identify the correct shadow of Nancy



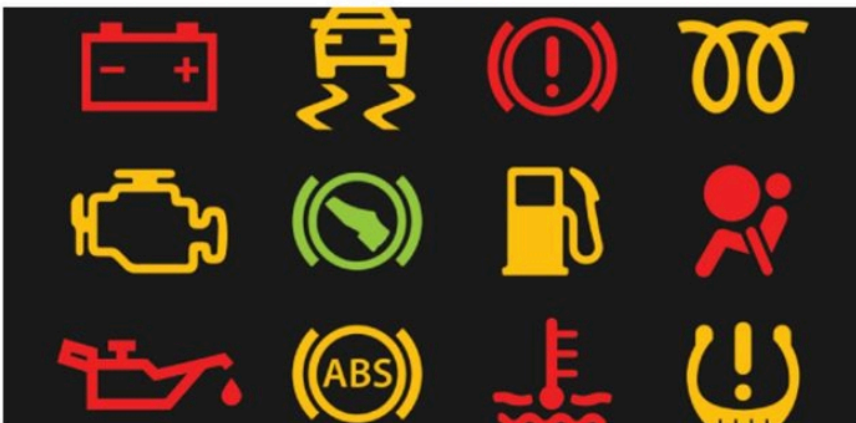
Nancy



S No.98

Item Code	Question Type	Ans Key	Marks
21162098	MCQ	B	2

The symbols in the given image are associated with which of the following?



- A. Building signage
- B. Vehicle warning signs
- C. Food and beverages
- D. Sustainable principles

S No.99

Item Code	Question Type	Ans Key	Marks
21162099	MCQ	B	2

Identify the font style matching the font style of the word 'Architecture & Design' from the options given below

# Architecture & Design

8

9

3

7

A

B

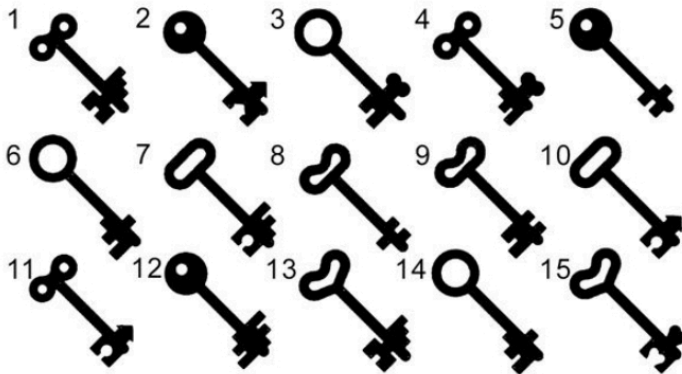
C

D

S No.100

Item Code	Question Type	Ans Key	Marks
21162100	NAT	6,14 Or 14,6	3

Identify the two similar keys from the image set provided below.  
(Provide answer strictly as follows: Example 1,2 or 1,13  
Answers in any other format will be rejected)



S No.101

Item Code	Question Type	Ans Key	Marks
21172101	MCQ	D	2

If 'diamond' is called 'gold', 'gold' is called 'silver', 'silver' is called 'ruby' and 'ruby' is called 'emerald', which is the cheapest jewel?

- A. Silver
- B. Gold
- C. Diamond
- D. Ruby

S No.102

Item Code	Question Type	Ans Key	Marks
21172102	MCQ	B	2

A and B are brothers. C and D are sisters. A's son is D's brother. How is B related to C?

- A. Father
- B. Uncle
- C. Brother
- D. Grandfather

S No.103

Item Code	Question Type	Ans Key	Marks
21172103	MCQ	C	2

Which of the following is always found in 'bravery'?

- A. Experiences
- B. Knowledge
- C. Courage
- D. Power

S No.104

Item Code	Question Type	Ans Key	Marks
21172104	MCQ	B	2

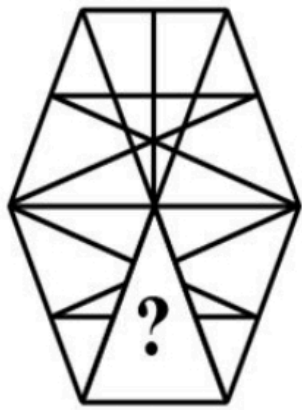
In a row of 40 girls, when Komal was shifted to her left by 4 places her number from the left end of the row became 10. What was the number of Swati from the right end of the row if Swati was three places to the right of Komal's original position?

- A. 25
- B. 24
- C. 23
- D. 22

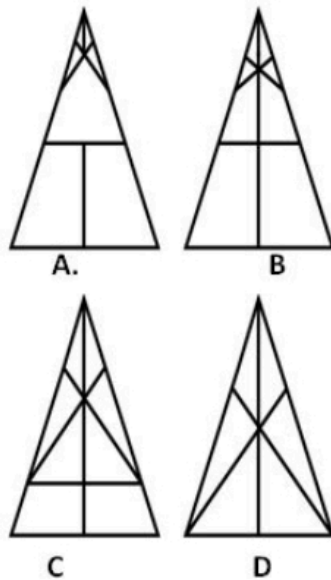
S No.105

Item Code	Question Type	Ans Key	Marks
21172105	MCQ	B	2

Find the appropriate figure from the alternatives given below which best fits into the blank space of the problem figure indicated by a (?)



Problem figure



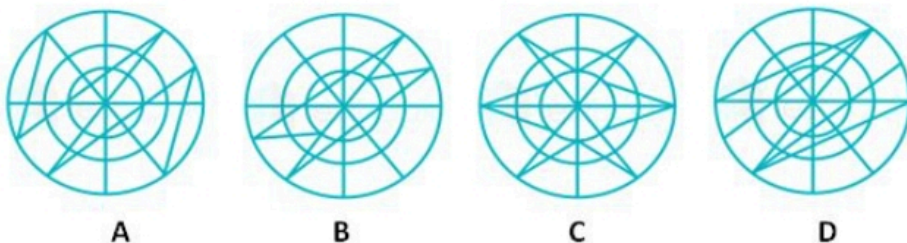
S No.106

Item Code	Question Type	Ans Key	Marks
21172106	MCQ	D	2

In this question the main figure is embedded one of the four option figures. Identify from the options given



Given figure



S No.107

Item Code	Question Type	Ans Key	Marks
21172107	MCQ	D	2

The V sign is a hand gesture as seen in the image below. When its usage was first introduced in January 1941 what did it stand for?



- A. Peace sign
- B. Associated with cuteness
- C. Offensive gesture
- D. Victory Sign

S No.108

Item Code	Question Type	Ans Key	Marks
21172108	MCQ	D	2

Identify the correct representation of Google photos



- A
- B
- C
- D

S No.109

Item Code	Question Type	Ans Key	Marks
21172109	MCQ	C	2

Identify the movie series from which this still is taken?



- A. James Bond
- B. X Men
- C. Matrix
- D. Fast and Furious

S No.110

Item Code	Question Type	Ans Key	Marks
21172110	MCQ	C	2

Image below shows part of a popular building product. Identify.



- A. Asian Paints
- B. Nerolac Paints
- C. Johnson Tiles
- D. Dulux Paints

S No.111

Item Code	Question Type	Ans Key	Marks
21182111	MSQ	A,D,F,H	3

The image given below is that of Villa Savoye designed by Le Corbusier. Identify **four** architectural components from the choices given below (Marks will be awarded only if all answers are right)



- A. Staircase headroom
- B. Courtyard
- C. Portico
- D. Grid
- E. Steel columns
- F. Horizontal windows
- G. Decorative parapet
- H. Terrace

S No.112

Item Code	Question Type	Ans Key	Marks
21182112	MSQ	A,B,E,F	3

Identify **four** architectural components in the interior image of a pharmacy given below: (Marks will be awarded only if all answers are right)



- A. Tubular truss
- B. Atrium
- C. Skylights
- D. Decorative parapet
- E. Ramps
- F. Mezzanines
- G. Perforated screens
- H. Timber roof

S No.113

Item Code	Question Type	Ans Key	Marks
21182113	MSQ	D,E,F,H	3

Identify the **four** most appropriate architectural/ building components in the apartment illustrated below:

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



- A. Laminated timber construction
- B. Tiled roof
- C. Dormer windows
- D. Glass panels
- E. Pigmented concrete walls
- F. Terrace
- G. Brick walls
- H. View frames

S No.114

Item Code	Question Type	Ans Key	Marks
21182114	MSQ	A,D,E,H	3

Identify **four** architectural components that you find in the interior image of a hotel.

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



- A. Rock garden
- B. Stone walls
- C. Atrium
- D. Cantilevers
- E. Exposed concrete
- F. Skylight
- G. Helical staircase
- H. Sitting deck

Item Code	Question Type	Ans Key	Marks
21182115	MSQ	A,C,E,F,H (Full marks to be awarded if any 4 answers are correct)	3

Identify the **four** most appropriate building components/ descriptions that you find in the image of a vernacular African settlement  
(Marks will be awarded only if all answers are right)



- A. Organic
- B. Canopy
- C. Adobe
- D. Rigid
- E. Informal
- F. Sculptural
- G. Stone masonry
- H. Ornamental

S No.116

Item Code	Question Type	Ans Key	Marks
21192116	MCQ	C	3

Carefully observe the given geometric pattern.  
 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.



Choose the correct color of the beak of the parrot image?



S No.117

Item Code	Question Type	Ans Key	Marks
21192117	NAT	1	3

Carefully observe the given geometric pattern.  
 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 times is the given pattern repeated in the image?



S No.118

Item Code	Question Type	Ans Key	Marks
21192118	NAT	2	3

Carefully observe the given image which is a work table on which various electronic devices are placed.

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 pairs of hands did you see in the given image

S No.119

Item Code	Question Type	Ans Key	Marks
21192119	NAT	2	3

Carefully observe the given image which is a work table on which various electronic devices are placed.

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.



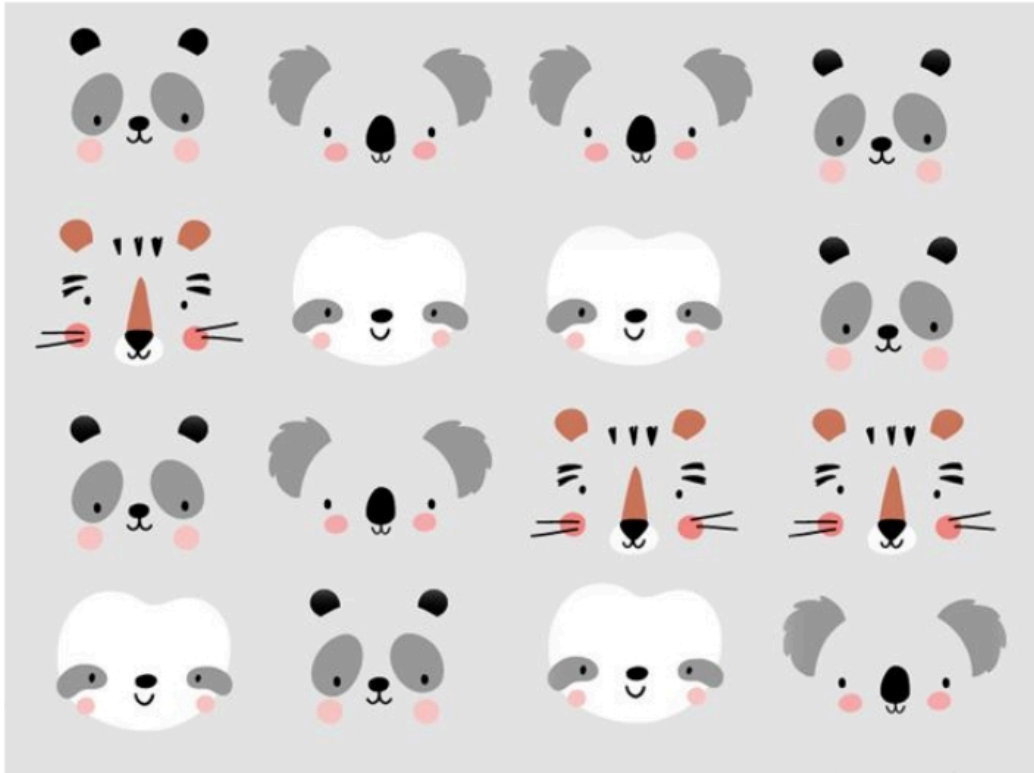
How many mobile phones were placed on the table? t Captured



Item Code	Question Type	Ans Key	Marks
21192122	MCQ	A	3

Carefully observe the given picture set comprising of animal faces. 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 animal appeared the most in the given picture?



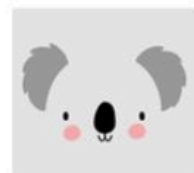
A



B



C



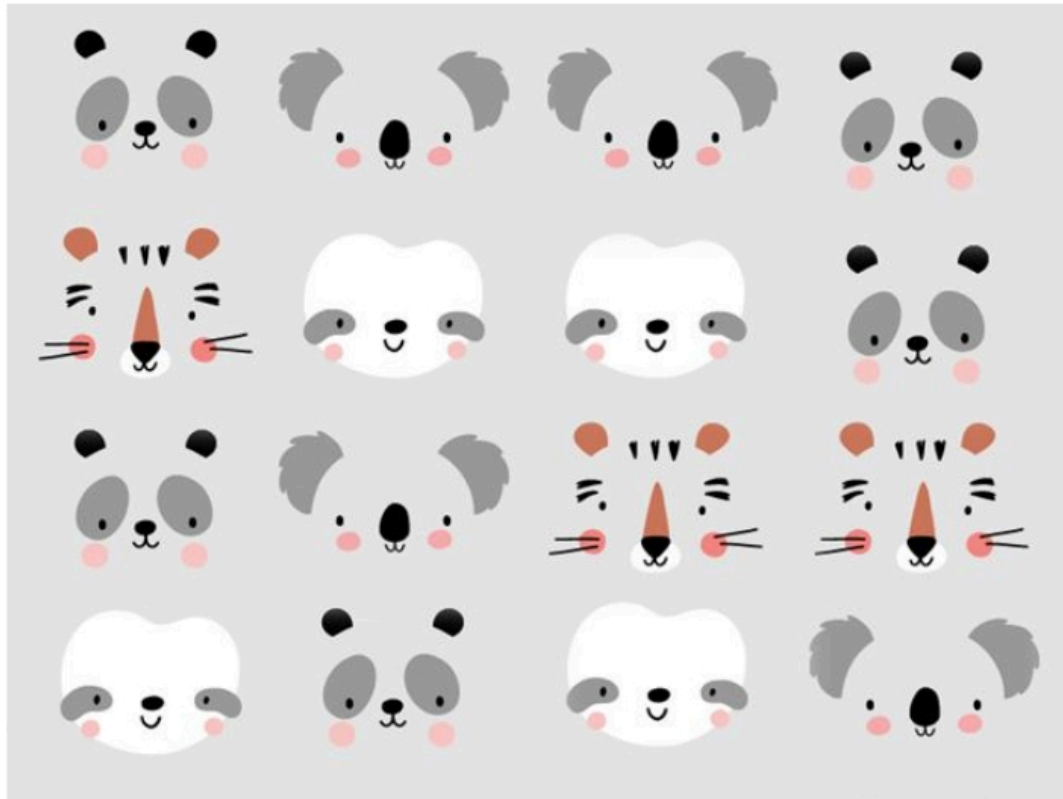
D

S No.123

Item Code	Question Type	Ans Key	Marks
21192123	NAT	4	3

Carefully observe the given picture set comprising of animal faces.  
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.



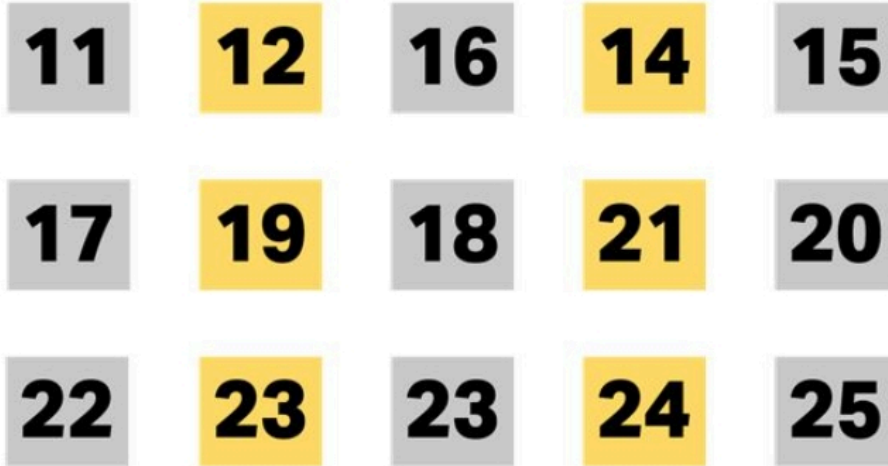
How many such animals did you see in the given picture?



Item Code	Question Type	Ans Key	Marks
21192124	NAT	23	3

Carefully observe the given image set made of numbers.  
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.

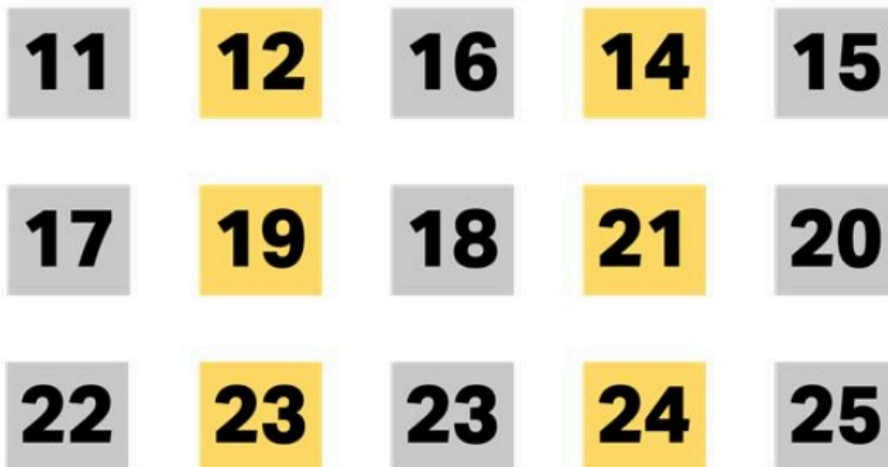


What number is repeated in the given number set?

Item Code	Question Type	Ans Key	Marks
21192125	MCQ	D	3

Carefully observe the given image set made of numbers.  
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.



The given number set is a set of numbers starting from 11 up to 25. However, there is one missing number. What is it?

- A. 16
- B. 14
- C. 21
- D. 13