

2023 NATA 3rd Attempt Shift 2

S No.1			
Item Code	Question Type	Ans Key	Marks
5115001	MCQ	A	1
For which set of numbers do the mean, median and mode all have the same values?			
A. 1,3,3,3,5			
B. 2,2,2,2			
C. 2,4,3,5			
D. 1,1,2,1,5			

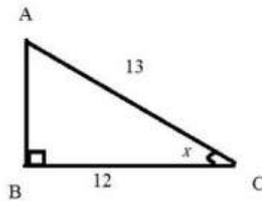
S No.2			
Item Code	Question Type	Ans Key	Marks
5115002	MCQ	A	1
Which one of the following is an irrational number?			
A. $\sqrt{10}$			
B. $\sqrt{49}$			
C. 0.025			
D. $\frac{\sqrt{3}}{2\sqrt{3}}$			

S No.3			
Item Code	Question Type	Ans Key	Marks
5115003	MCQ	B	1
Find the missing value of the sequence.			
0, 7, 26, 63, 124, _____			
A. 144			
B. 215			
C. 225			
D. 216			

S No.4			
Item Code	Question Type	Ans Key	Marks
5115004	MCQ	B	1
If Independence Day was on a Saturday in 2020, what day will it be in 2021?			
A. Saturday			
B. Sunday			
C. Monday			
D. Wednesday			

S No.5			
Item Code	Question Type	Ans Key	Marks
5115005	MCQ	A	1

From the given figure, find the value of $\sin x$.



- A. $\frac{5}{13}$
- B. $\frac{12}{13}$
- C. $\frac{5}{12}$
- D. 0

S No.6			
Item Code	Question Type	Ans Key	Marks
5115006	NAT	75	1

Player 1 and Player 2 are running around a circular field. Player 1 takes 15 minutes to take one round, while Player 2 completes the round in 25 minutes. If both start simultaneously and go in the same direction, after how much time will they meet at the starting point?

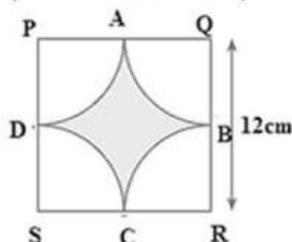
S No.7			
Item Code	Question Type	Ans Key	Marks
5115007	NAT	4	1

Arun can do a piece of work in 15 days. Binu can do this work in 18 days. Arun started the work alone. After how many days should Binu join him, so that the work is finished in 10 days?

S No.8			
Item Code	Question Type	Ans Key	Marks
5115008	NAT	30.96	1

What is the area (in cm^2) of the shaded region in Fig., where arcs drawn with centres P, Q, R and S intersect in pairs at mid-points A, B, C and D of the sides PQ, QR, RS and SP, respectively of a square PQRS?

(Use value of π as 3.14)



S No.9			
Item Code	Question Type	Ans Key	Marks
5115009	NAT	8	1

If one root of equation $4x^2 - 2x + k - 4 = 0$ is reciprocal of the other, then what is value of k ?

S No.10			
Item Code	Question Type	Ans Key	Marks
5115010	NAT	10	1
The diagonals of a rhombus are 16 cm and 12 cm, in length. Then what is the length (in cm) of the side of the rhombus?			

S No.11			
Item Code	Question Type	Ans Key	Marks
5125011	MCQ	B	1
A ball dropped from a spacecraft is revolving around the earth at a height of 120 km. What will happen to the ball?			
<ul style="list-style-type: none"> A. It will move with the same speed, tangentially to the spacecraft B. It will continue to move with the same speed along the original orbit of the spacecraft C. It will go very far in the space D. It will fall down to the earth gradually 			

S No.12			
Item Code	Question Type	Ans Key	Marks
5125012	MCQ	A	1
A man waves his arm while walking. This is _____.			
<ul style="list-style-type: none"> A. to balance the effect of earth's gravity B. to increase the velocity C. to ease the tension D. to keep constant velocity 			

S No.13			
Item Code	Question Type	Ans Key	Marks
5125013	MCQ	D	1
Usually, what is the least count of a screw gauge?			
<ul style="list-style-type: none"> A. 0.01 cm B. 0.1 cm C. 1 mm D. 0.001 cm 			

S No.14

Item Code	Question Type	Ans Key	Marks
5125014	MCQ	C	1

Why are the soles of the shoes treaded?

- A. To give the shoes more protection
- B. To decrease friction
- C. To increase friction
- D. To increase life of the shoes.

S No.15

Item Code	Question Type	Ans Key	Marks
5125015	NAT	342	1

An echo is returned in 2 seconds. What is the distance (in m) of the reflecting surface from the source, given that the speed of the sound is 342 ms^{-1} .

S No.16

Item Code	Question Type	Ans Key	Marks
5125016	NAT	12250	1

A machine gun fires 60 bullets per minute with a velocity of 700 m/s . If each bullet has a mass of 50, what is the power (in Watts) developed by the gun?

S No.17

Item Code	Question Type	Ans Key	Marks
5125017	NAT	60	1

A boat having a length of 3m and breadth 2m is floating on a lake. The boat sinks by one cm when a man gets on it. What is the mass (in kg) of the man?

S No.18

Item Code	Question Type	Ans Key	Marks
5135018	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?

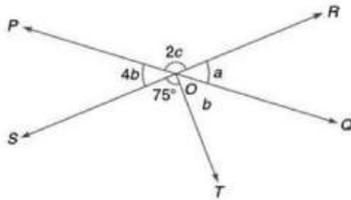
- A. -50cm
- B. -60cm
- C. 10cm
- D. 60cm

S No.19

Item Code	Question Type	Ans Key	Marks
5135019	MCQ	B	1

The given two straight lines PQ and RS intersect each other at O.

If $\angle SOT = 75^\circ$, find the value of a, b and c.



- A. $a = 72^\circ$, $b = 24^\circ$, $c = 54^\circ$
 B. $a = 84^\circ$, $b = 21^\circ$, $c = 48^\circ$
 C. $a = 64^\circ$, $b = 28^\circ$, $c = 45^\circ$
 D. $a = 48^\circ$, $b = 20^\circ$, $c = 50^\circ$

S No.20

Item Code	Question Type	Ans Key	Marks
5135020	MCQ	B	1

The slant height of a right circular cone is 10 m and its height is 8 m. Find the area of its curved surface.

- A. $30\pi \text{ m}^2$
 B. $60\pi \text{ m}^2$
 C. $70\pi \text{ m}^2$
 D. $40\pi \text{ m}^2$

S No.21

Item Code	Question Type	Ans Key	Marks
5135021	MCQ	C	1

A right triangle with sides 3 cm, 4 cm and 5 cm is rotated along the 3 cm side to form a cone. What will be the volume of the cone?

- A. $15\pi \text{ cm}^3$
 B. $10\pi \text{ cm}^3$
 C. $12\pi \text{ cm}^3$
 D. $14\pi \text{ cm}^3$

S No.22

Item Code	Question Type	Ans Key	Marks
5135022	NAT	13	1

Two poles of height 6 m and 11 m stand vertically upright on a plane ground. If the distance between their base is 12 m, find the distance (in m) between the top of the poles.

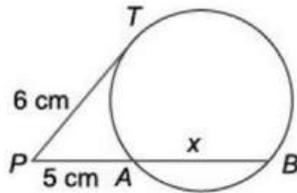
S No.23

Item Code	Question Type	Ans Key	Marks
5135023	NAT	48	1

What is the area (in cm^2) of a kite with diagonals 12cm and 8cm?

S No.24			
Item Code	Question Type	Ans Key	Marks
5135024	NAT	2.2	1

What is the value of x (in cm) in the given figure?



S No.25			
Item Code	Question Type	Ans Key	Marks
5135025	NAT	4:5	1

Two isosceles triangles have equal vertical angles and their areas are in the ratio 16:25. What is the ratio of their corresponding heights?

S No.26			
Item Code	Question Type	Ans Key	Marks
5145026	MCQ	D	1

Which of the following sentences contains an incorrect use of a preposition?

- A. The cat is hiding under the bed.
- B. We walked across the bridge to get to the other side.
- C. She's been waiting since 2 o'clock.
- D. He's been working for this company since five years.

S No.27			
Item Code	Question Type	Ans Key	Marks
5145027	MCQ	A	1

What is an animal story with a moral called?

- A. Fable
- B. Anecdote
- C. Tale
- D. Parable

S No.28			
Item Code	Question Type	Ans Key	Marks
5145028	MCQ	B	1
Fill in the blank: 'Even a _____ glance will reveal the mystery'. A. crude B. cursory C. critical D. curious			

S No.29			
Item Code	Question Type	Ans Key	Marks
5145029	MCQ	C	1
Find the word that can replace the underlined word in the sentence given below such that the meaning of the sentence does not change. "The athlete's performance was <u>phenomenal</u> , and she broke the world record in the high jump." A. Average B. Unremarkable C. Extraordinary D. Disappointing			

S No.30			
Item Code	Question Type	Ans Key	Marks
5145030	MCQ	C	1
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: S1: The restaurant was known for its delicious seafood dishes. P: The wait staff were friendly and knowledgeable about the menu Q: The chef was passionate about using fresh, local ingredients in all of his dishes. R: The restaurant was decorated with nautical-themed artwork and accents. S: The menu featured a variety of fish, shrimp, and lobster dishes. S6: Diners could enjoy their meals while looking out at the ocean view from the restaurant's windows. A. PRSQ B. QSPR C. QSRP D. RPSQ			

S No.31

Item Code	Question Type	Ans Key	Marks
5155031	MCQ	C	1

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

TEXT

Jagan gets ready for his job interview. He takes a shower. He shaves. He brushes his teeth. He cuts his fingernails. He combs his hair. He puts on the new suit he bought just for today. He feels confident.

He is also very nervous. Here is why. Jagan graduated at the top of his class in college. Still, Jagan knows the economy is bad. His dad just lost his job at the bank a few weeks ago! Many people are interviewing for the very same job. There is a lot of competition.

Jagan is still positive. He thinks he has a good chance of getting the job at the technology company. Jagan arrives at his interview at 9:45. He is 15 minutes early. He realizes the importance of being prompt. He does not want to be late. "Have a seat. Mr. Sharma will be right with you," the receptionist says. Jagan sits. He thinks about what he has learned to do in an interview.

Look people in the eye.

Give a firm handshake.

Speak clearly.

Jagan feels ready. "Mr. Sharma is ready to see you now," the receptionist says. Jagan takes a deep breath and walks into Mr. Sharma's office. "Good to meet you, sir," Jagan says and gives Mr. Sharma a firm handshake and a smile.

What kind of job is Jagan interviewing for?

- A. a college job
- B. a banking job
- C. a technology job
- D. a receptionist job

S No.32

Item Code	Question Type	Ans Key	Marks
5155032	MCQ	A	1

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

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Why is it good that Jagan gets to his interview early?

- A. It gives Jagan time to think.
- B. It helps Jagan speak clearly.
- C. Mr. Sharma likes people to be early.
- D. The receptionist asks him to be there early.

S No.33

Item Code	Question Type	Ans Key	Marks
5155033	MCQ	C	1

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

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If you are prompt, this means you are _____.

- A. positive
- B. intelligent
- C. on time
- D. in control

S No.34

Item Code	Question Type	Ans Key	Marks
5155034	MCQ	D	1

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

TEXT

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Give a firm handshake.

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What is competition?

- A. when people get ready to go out
- B. when people go for a job interview
- C. when people feel they are not good enough
- D. when many people are going after the same thing

S No.35

Item Code	Question Type	Ans Key	Marks
5155035	MCQ	D	1

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

TEXT

Yellowstone National Park is in the U.S. states of Wyoming, Idaho, and Montana. It became the first National Park in 1872. There are geysers and hot springs at Yellowstone. There are also many animals at Yellowstone. There are elk, bison, sheep, grizzly bears, black bears, moose, coyotes and more.

More than 3 million people visit Yellowstone National Park each year. During the winter, visitors can ski or go snowmobiling there. There are also snow coaches that give tours. Visitors can see steam come from the geysers. During other seasons, visitors can go boating or fishing. People can ride horses there. There are nature trails and tours. Most visitors want to see Old Faithful, a very predictable geyser at Yellowstone. Visitors can check a schedule to see the exact time that Old Faithful is going to erupt.

There are many other geysers and boiling springs in the area. Great Fountain Geyser erupts every 11 hours. Excelsior Geyser produces 4,000 gallons of boiling water each minute! Boiling water is 100 degrees Celsius, or 212 degrees Fahrenheit – that's very hot! People also like to see the Grand Prismatic Spring. It is the largest hot spring in the park. It has many beautiful colors. The beautiful colors are caused by bacteria in the water. These are forms of life that have only one cell. Different bacteria live in different water temperatures. Visiting Yellowstone National Park can be a week-long vacation or more. It is beautiful, and there are activities for everyone.

Which is the largest hot spring in Yellowstone National Park?

- A. Excelsior
- B. Old Faithful
- C. Great Fountain
- D. Grand Prismatic

S No.36

Item Code	Question Type	Ans Key	Marks
5155036	MCQ	B	1

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

TEXT

Yellowstone National Park is in the U.S. states of Wyoming, Idaho, and Montana. It became the first National Park in 1872. There are geysers and hot springs at Yellowstone. There are also many animals at Yellowstone. There are elk, bison, sheep, grizzly bears, black bears, moose, coyotes and more.

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Which word in the passage is a synonym for the word 'certain'?

- A. vacation
- B. predictable
- C. erupt
- D. week-long

S No.37

Item Code	Question Type	Ans Key	Marks
5155037	MCQ	A	1

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

TEXT

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There are many other geysers and boiling springs in the area. Great Fountain Geyser erupts every 11 hours. Excelsior Geyser produces 4,000 gallons of boiling water each minute! Boiling water is 100 degrees Celsius, or 212 degrees Fahrenheit – that's very hot! People also like to see the Grand Prismatic Spring. It is the largest hot spring in the park. It has many beautiful colors. The beautiful colors are caused by bacteria in the water. These are forms of life that have only one cell. Different bacteria live in different water temperatures. Visiting Yellowstone National Park can be a week-long vacation or more. It is beautiful, and there are activities for everyone.

What are bacteria?

- A. forms of life with one cell
- B. multi-celled organisms
- C. beautiful colours
- D. coyote

S No.38

Item Code	Question Type	Ans Key	Marks
5155038	MCQ	C	1

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

TEXT

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Which of the following activities cannot be done in summer in the Yellowstone National Park?

- A. horse riding
- B. nature trails
- C. fishing
- D. skiing

S No.39

Item Code	Question Type	Ans Key	Marks
5155039	MCQ	C	1

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

TEXT

The 543 elected MPs will be elected from single-member constituencies using first-past-the-post voting. The President of India nominates an additional two members from the Anglo-Indian community if he believes the community is under-represented.

Eligible voters must be Indian citizens, 18 or older, an ordinary resident of the polling area of the constituency and possess a valid voter identification card issued by the Election Commission of India. Some people convicted of electoral or other offences are barred from voting.

Earlier there were speculations that the Modi Government might advance the 2019 general election to counter the anti-incumbency factor, however learning from its past blunder of preponing election made by the Vajpayee Government it decided to go into election as per the normal schedule which was announced by Election Commission of India (ECI) on 10 March 2019, after which Model Code of Conduct was applied with immediate effect.

Which word or phrase means “disapproval of current political officeholders” in the passage?

- A. First-past-the-post
- B. Blunder
- C. Anti-incumbency
- D. Model Code of Conduct

S No.40	Item Code	Question Type	Ans Key	Marks
	5155040	MCQ	B	1

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

TEXT

The 543 elected MPs will be elected from single-member constituencies using first-past-the-post voting. The President of India nominates an additional two members from the Anglo-Indian community if he believes the community is under-represented.

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What are the mandatory requirements to vote in India?

- i. Must be an Indian citizen
- ii. Must be 18 or older
- iii. Must have a valid criminal record
- iv. Must be an ordinary resident of the polling area of the constituency
- v. Must possess a valid voter identification card issued by the Election Commission of India

Choose the correct options:

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

S No.41			
Item Code	Question Type	Ans Key	Marks
5155041	MCQ	D	1

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

TEXT

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What is the apt meaning of “speculations” as per the passage?

- A. Conjectures
- B. Assumptions
- C. Either (a) or (b)
- D. Both (a) and (b)

S No.42			
Item Code	Question Type	Ans Key	Marks
5155042	MCQ	D	1

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

TEXT

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Eligible voters must be Indian citizens, 18 or older, an ordinary resident of the polling area of the constituency and possess a valid voter identification card issued by the Election Commission of India. Some people convicted of electoral or other offences are barred from voting.

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When does the President of India nominate an additional two members from the Anglo-Indian community?

- A. When there are less than 543 elected MPs
- B. When the Anglo-Indian community fails to send a representative
- C. When the president believes that the Anglo-Indian community is over-represented
- D. When the president believes that the Anglo-Indian community is under-represented

S No.43

Item Code	Question Type	Ans Key	Marks
5155043	MCQ	D	1

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

TEXT

What, one wonders, is the lowest common denominator of Indian culture today? The attractive Hema Malini? The songs of Vividh Bharati? Or the mouth-watering Masala Dosa? Delectable as these may be, each yield pride of place to that false (?) symbol of a new era- the synthetic fibre.

In less than twenty years the nylon sari and the terylene shirt have swept the countryside, penetrated to the farthest corners of the land and persuaded every common man, woman and child that the key to success in the present-day world lie in artificial fibers: glass nylon, crepe nylon, terry mixes, polyesters and what have you. More than the bicycles, the wristwatch or the transistor radio, synthetic clothes have come to represent the first step away from the village square. The village lass treasures the flashy nylon sari in her trousseau; the village youth get a great kick out of his cheap terry-cot shirt and trousers, the nearest he can approximate to the expensive synthetic sported by his wealthy city bred contemporaries. And the Neo-rich craze for 'phoren' is nowhere more apparent than in the price that people will pay for smuggled, stolen, begged, borrowed second hand or thrown away synthetics. Alas, even the uniformity of nylon.

What is the 'lowest common denominator' of the Indian culture today according to the passage?

- A. Hema Malini
- B. Songs of Vividh Bharati
- C. Masala Dosa
- D. Synthetic fibre

S No.44			
Item Code	Question Type	Ans Key	Marks
5155044	MCQ	C	1

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

TEXT

What, one wonders, is the lowest common denominator of Indian culture today? The attractive Hema Malini? The songs of Vividh Bharati? Or the mouth-watering Masala Dosa? Delectable as these may be, each yield pride of place to that false (?) symbol of a new era- the synthetic fibre.

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What does the term 'Neo-rich' mean?

- A. Aristocracy
- B. Industrialists
- C. Newly rich
- D. City bred people

S No.45			
Item Code	Question Type	Ans Key	Marks
5155045	MCQ	B	1

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

TEXT

What, one wonders, is the lowest common denominator of Indian culture today? The attractive Hema Malini? The songs of Vividh Bharati? Or the mouth-watering Masala Dosa? Delectable as these may be, each yield pride of place to that false (?) symbol of a new era- the synthetic fibre.

In less than twenty years the nylon sari and the terylene shirt have swept the countryside, penetrated to the farthest corners of the land and persuaded every common man, woman and child that the key to success in the present-day world lie in artificial fibers: glass nylon, crepe nylon, terry mixes, polyesters and what have you. More than the bicycles, the wristwatch or the transistor radio, synthetic clothes have come to represent the first step away from the village square. The village lass treasures the flashy nylon sari in her trousseau; the village youth get a great kick out of his cheap terry-cot shirt and trousers, the nearest he can approximate to the expensive synthetic sported by his wealthy city bred contemporaries. And the Neo-rich craze for 'phoren' is nowhere more apparent than in the price that people will pay for smuggled, stolen, begged, borrowed second hand or thrown away synthetics. Alas, even the uniformity of nylon.

The synthetic fibre has _____.

- A. always been popular in India.
- B. become popular in the last 20 years.
- C. never been popular in the last 20 years.
- D. been as popular as other kinds of fibre.

S No.46			
Item Code	Question Type	Ans Key	Marks
5155046	MCQ	C	1
After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.			
TEXT			
<p>What, one wonders, is the lowest common denominator of Indian culture today? The attractive Hema Malini? The songs of Vividh Bharati? Or the mouth-watering Masala Dosa? Delectable as these may be, each yield pride of place to that false (?) symbol of a new era- the synthetic fibre.</p> <p>In less than twenty years the nylon sari and the terylene shirt have swept the countryside, penetrated to the farthest corners of the land and persuaded every common man, woman and child that the key to success in the present-day world lie in artificial fibers: glass nylon, crepe nylon, terry mixes, polyesters and what have you. More than the bicycles, the wristwatch or the transistor radio, synthetic clothes have come to represent the first step away from the village square. The village lass treasures the flashy nylon sari in her trousseau; the village youth get a great kick out of his cheap terry-cot shirt and trousers, the nearest he can approximate to the expensive synthetic sported by his wealthy city bred contemporaries. And the Neo-rich craze for 'phoren' is nowhere more apparent than in the price that people will pay for smuggled, stolen, begged, borrowed second hand or thrown away synthetics. Alas, even the uniformity of nylon.</p>			

How would you describe the tone of the passage?

- A. Tragic
- B. Ironic
- C. Sombre
- D. Satiric

S No.48

Item Code	Question Type	Ans Key	Marks
5155048	MCQ	D	1

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

TEXT

Maalik and Mathan lived in the same village. While Mathan owned the largest jewelry shop in the village, Maalik was a poor farmer. Both had large families with many sons, daughters-in-law and grandchildren.

One fine day, Maalik, tired of not being able to feed his family, decided to leave the village and move to the city where he was certain to earn enough to feed everyone. Along with his family, he left the village for the city. At night, they stopped under a large tree. There was a stream running nearby where they could freshen up themselves. He told his sons to clear the area below the tree, he told his wife to fetch water and he instructed his daughters-in-law to make up the fire and started cutting wood from the tree himself. They didn't know that in the branches of the tree, there was a thief hiding. He watched as Maalik's family worked together and also noticed that they had nothing to cook. Maalik's wife also thought the same and asked her husband "Everything is ready but what shall we eat?". Maalik raised his hands to heaven and said "Don't worry. He is watching all of this from above. He will help us." The thief got worried as he had seen that the family was large and worked well together. Taking advantage of the fact that they did not know he was hiding in the branches, he decided to make a quick escape. He climbed down safely when they were not looking and ran for his life. But he left behind the bundle of stolen jewels and money which dropped into Maalik's lap. Maalik opened it and jumped with joy when he saw the contents. The family gathered all their belongings and returned to the village. There was great excitement when they told everyone how they got rich.

Mathan thought that the tree was miraculous and this was a nice and quick way to earn some money. He ordered his family to pack some clothes and they set off as if on a journey. They also stopped under the same tree and Mathan started commanding everyone as Maalik had done. But no one in his family was willing to obey his orders. Being a rich family, they were used to having servants all around. So, the one who went to the river to fetch water enjoyed a nice bath. The one who went to get wood for fire went off to sleep. Mathan's wife said "Everything is ready but what shall we eat?" Mathan raised his hands and said, "Don't worry. He is watching all of this from above. He will help us." As soon as he finished saying, the thief jumped down from the tree with a knife in hand. Seeing him, everyone started running around to save their lives. The thief stole everything they had and Mathan and his family had to return to the village empty handed, having lost all their valuables that they had taken with them.

What did Maalik mean when he said "He is watching all this from above"?

- A. He had spotted the thief and wanted to scare him.
- B. He was begging the thief to help his family.
- C. It was just a warning for his family members to stick together.
- D. He was telling his wife to have faith in God.

Item Code	Question Type	Ans Key	Marks
5155049	MCQ	A	1

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

TEXT

Maalik and Mathan lived in the same village. While Mathan owned the largest jewelry shop in the village, Maalik was a poor farmer. Both had large families with many sons, daughters-in-law and grandchildren.

One fine day, Maalik, tired of not being able to feed his family, decided to leave the village and move to the city where he was certain to earn enough to feed everyone. Along with his family, he left the village for the city. At night, they stopped under a large tree. There was a stream running nearby where they could freshen up themselves. He told his sons to clear the area below the tree, he told his wife to fetch water and he instructed his daughters-in-law to make up the fire and started cutting wood from the tree himself. They didn't know that in the branches of the tree, there was a thief hiding. He watched as Maalik's family worked together and also noticed that they had nothing to cook. Maalik's wife also thought the same and asked her husband "Everything is ready but what shall we eat?" . Maalik raised his hands to heaven and said "Don't worry. He is watching all of this from above. He will help us." The thief got worried as he had seen that the family was large and worked well together. Taking advantage of the fact that they did not know he was hiding in the branches, he decided to make a quick escape. He climbed down safely when they were not looking and ran for his life. But he left behind the bundle of stolen jewels and money which dropped into Maalik's lap. Maalik opened it and jumped with joy when he saw the contents. The family gathered all their belongings and returned to the village. There was great excitement when they told everyone how they got rich.

Mathan thought that the tree was miraculous and this was a nice and quick way to earn some money. He ordered his family to pack some clothes and they set off as if on a journey. They also stopped under the same tree and Mathan started commanding everyone as Maalik had done. But no one in his family was willing to obey his orders. Being a rich family, they were used to having servants all around. So, the one who went to the river to fetch water enjoyed a nice bath. The one who went to get wood for fire went off to sleep. Mathan's wife said "Everything is ready but what shall we eat?" Mathan raised his hands and said, "Don't worry. He is watching all of this from above. He will help us." As soon as he finished saying, the thief jumped down from the tree with a knife in hand. Seeing him, everyone started running around to save their lives. The thief stole everything they had and Mathan and his family had to return to the village empty handed, having lost all their valuables that they had taken with them.

How did the fellow villagers react to Maalik getting rich overnight?

- A. They were very excited.
- B. They were jealous of him.
- C. They followed his example.
- D. They envied him.

S No.50

Item Code	Question Type	Ans Key	Marks
5155050	MCQ	D	1

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

TEXT

Maalik and Mathan lived in the same village. While Mathan owned the largest jewelry shop in the village, Maalik was a poor farmer. Both had large families with many sons, daughters-in-law and grandchildren.

One fine day, Maalik, tired of not being able to feed his family, decided to leave the village and move to the city where he was certain to earn enough to feed everyone. Along with his family, he left the village for the city. At night, they stopped under a large tree. There was a stream running nearby where they could freshen up themselves. He told his sons to clear the area below the tree, he told his wife to fetch water and he instructed his daughters-in-law to make up the fire and started cutting wood from the tree himself. They didn't know that in the branches of the tree, there was a thief hiding. He watched as Maalik's family worked together and also noticed that they had nothing to cook. Maalik's wife also thought the same and asked her husband "Everything is ready but what shall we eat?". Maalik raised his hands to heaven and said "Don't worry. He is watching all of this from above. He will help us." The thief got worried as he had seen that the family was large and worked well together. Taking advantage of the fact that they did not know he was hiding in the branches, he decided to make a quick escape. He climbed down safely when they were not looking and ran for his life. But he left behind the bundle of stolen jewels and money which dropped into Maalik's lap. Maalik opened it and jumped with joy when he saw the contents. The family gathered all their belongings and returned to the village. There was great excitement when they told everyone how they got rich.

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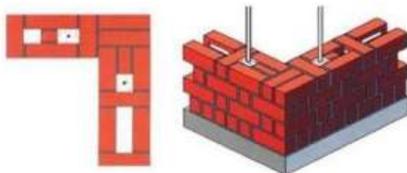
Which of the following **best** describes Mathan?

- A. He was a rich landlord.
- B. He bullied his wife.
- C. He paid his servants well.
- D. He was greedy and imitated Maalik.

S No.51

Item Code	Question Type	Ans Key	Marks
5165051	MCQ	B	2

Identify the type of Brick bond from the image given below.



- A. English bond
- B. Rat Trap bond
- C. Flemish bond
- D. Header bond

S No.52

Item Code	Question Type	Ans Key	Marks
5165052	MCQ	A	2

Identify the structure in the given image from the options given below.



- A. Sewage treatment plant
- B. Water treatment plant
- C. Desalination plant
- D. Cooling ponds

S No.53

Item Code	Question Type	Ans Key	Marks
5165053	MCQ	D	2

This is a picture of natural light filtering through a roof. What is the roofing material?

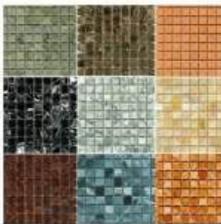


- A. Insulated profile sheets
- B. Concrete patterned slab
- C. Filler slab
- D. Terracotta Mangalore tiles

S No.54

Item Code	Question Type	Ans Key	Marks
5165054	MCQ	B	2

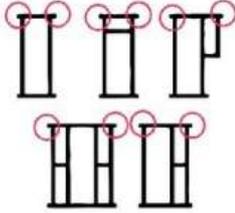
Identify the type of tile.



- A. Glass tiles
- B. Mosaic tiles
- C. Porcelain tiles
- D. Ceramic tiles

S No.55			
Item Code	Question Type	Ans Key	Marks
5165055	MCQ	D	2

In wooden doors and windows what are the projected corners marked with red circles known as?



- A. Ears
- B. Shoulders
- C. Buttress
- ~~D. Horns~~

S No.56			
Item Code	Question Type	Ans Key	Marks
5175056	MCQ	A	1

This is the Kovalam beach in Kerala. All coastal areas are governed by regulations in India. What are they called?



- ~~A. Coastal Regulation Zone~~
- B. Coastal Zone Regulations
- C. Beach Front Regulations
- D. Waterfront Regulations

S No.57			
Item Code	Question Type	Ans Key	Marks
5175057	MCQ	C	1

On the occasion of World Environment Day 2023, PM Modi has launched the 'MISHTI' schemes. What is this scheme is related to?

- A. Mango
- B. Mahogany
- ~~C. Mangrove~~
- D. Manihot

S No.58			
Item Code	Question Type	Ans Key	Marks
5175058	MCQ	B	1

Which state has renamed the dragon fruit as 'Kamalam'?

- A. Assam
- ~~B. Gujarat~~
- C. Tripura
- D. Goa

S No.59

Item Code	Question Type	Ans Key	Marks
5175059	MCQ	D	1

Image shows a popular sculpture in Indian temples. Identify.



- A. Goddess Lakshmi
- B. Vajrapani Buddha
- C. Bhagavan Mahavir
- D. Lord Shiva

S No.60

Item Code	Question Type	Ans Key	Marks
5175060	MCQ	A	1

In GDP, what does the letter 'D' stand for?

- A. Domestic
- B. Dividend
- C. Derivation
- D. Development

S No.61

Item Code	Question Type	Ans Key	Marks
5175061	MCQ	A	1

Identify the style of calligraphy depicted in the image given below.



- A. Devanagari
- B. Brahmi
- C. Ardhanagiri
- D. Swadeshi

S No.62

Item Code	Question Type	Ans Key	Marks
5175062	MCQ	A	1

Identify the organization from the logo



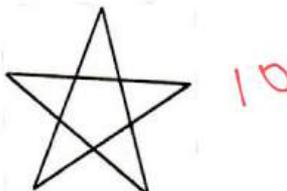
- A. Reserve Bank of India
- B. ICOMOS
- C. World Heritage Site, UNESCO
- D. Central Bank of India

S No.63			
Item Code	Question Type	Ans Key	Marks
5185063	NAT	0.75	1

Which of the following options is the best choice for the missing number?
 0.1, 0.25, 0.3, 0.2, 0.5, 0.6, 0.3, 0.75, 0.9, 0.4, 1.0, 1.2

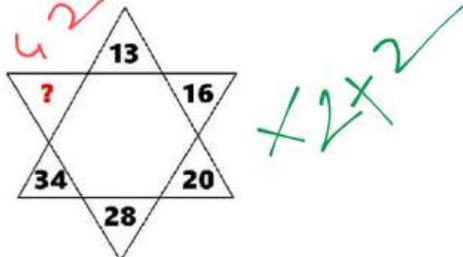
S No.64			
Item Code	Question Type	Ans Key	Marks
5185064	NAT	10	1

Find the number of triangles in the given figure.



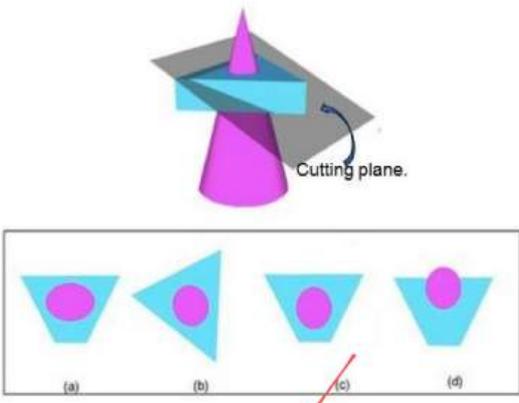
S No.65			
Item Code	Question Type	Ans Key	Marks
5185065	NAT	42	1

Find the missing number.



S No.66			
Item Code	Question Type	Ans Key	Marks
5185066	MCQ	C	2

From the given answer options choose the geometric plane that is produced when the 3-D object is sliced by the cutting plane as seen in the figure.



S No.67

Item Code	Question Type	Ans Key	Marks
5185067	MCQ	D	2

Which of the following 3D objects has a cross section that's a rectangle?

- A. Basketball
- B. Light Bulb
- C. Cone
- D. Soda can

Item Code	Question Type	Ans Key	Marks
5195068	MSQ	A, D, F, G	2

Choose any **four** most appropriate elements/ principles which can be commonly observed in the given composition.
Marks will be awarded only if all answers are correct.



- A. Balance
- B. Hierarchy
- C. Form
- D. Axis
- E. Emphasis
- F. Shape
- G. Asymmetry
- H. Rhythm

Choose any **four** most appropriate principles/ elements of design which can be commonly observed in the given composition.
Marks will be awarded only if all answers are correct.



- A. Symmetry
- ~~B. Focus~~
- C. Hierarchy
- ~~D. Pattern~~
- E. Rhythm
- F. Axis
- ~~G. Vibrancy~~
- ~~H. Emphasis~~

S No.70

Item Code	Question Type	Ans Key	Marks
5195070	MSQ	D, E, F, H	2

Choose any **four** most appropriate principles/ elements of design which can be commonly observed in the given composition.
Marks will be awarded only if all answers are correct.



- A. Focus
- B. Balance
- C. Contrast
- ~~D. Direction~~
- ~~E. Rhythm~~
- ~~F. Fold and unfold~~
- G. Emphasis
- ~~H. Flow~~

S No.74

Item Code	Question Type	Ans Key	Marks
51105074	MCQ	B	2

What does the image below represent?



- A. Grain silos
- B. House compound
- C. Burial mounds
- D. Bunker

S No.75

Item Code	Question Type	Ans Key	Marks
51105075	MCQ	A	2

Identify the building through this graphic.

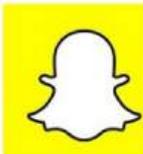


- A. Colosseum, Rome
- B. Lusail stadium, Qatar
- C. Wembley National stadium, London
- D. Panathenaic stadium, Athens

S No.76

Item Code	Question Type	Ans Key	Marks
51115076	MCQ	B	2

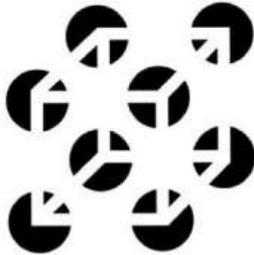
Identify the logo.



- A. Twitter
- B. Snapchat
- C. Instagram
- D. Tik Tok

S No.77			
Item Code	Question Type	Ans Key	Marks
51115077	MCQ	D	2

Identify the illusion type from the options



- A. Ebbinghaus illusion
- B. Lateral Illusion
- C. Tessellation
- D. Gestalt Illusion

S No.78			
Item Code	Question Type	Ans Key	Marks
51115078	MCQ	C	2

Identify the logo from its graphic component.



- A. Agricultural product
- B. Forest related organization
- C. Building product
- D. Pharma Company

S No.79			
Item Code	Question Type	Ans Key	Marks
51115079	MCQ	C	2

Identify the image.



- A. Simha
- B. Mooshak
- C. Nandi
- D. Vasuki

S No.80			
Item Code	Question Type	Ans Key	Marks
51115080	MCQ	C	2

Identify the font style matching the word given below.

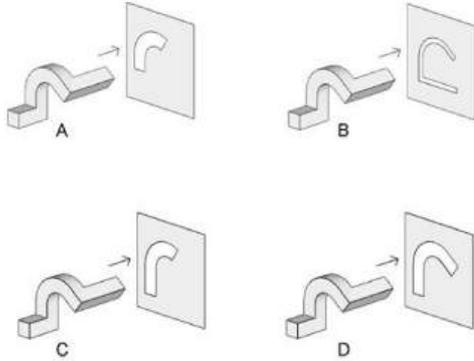
oNe tWo siX eiGHt

- | | | | |
|---|---|---|---|
| 1 | 2 | 6 | 8 |
| A | B | C | D |

S No.81

Item Code	Question Type	Ans Key	Marks
51125081	MCQ	D	2

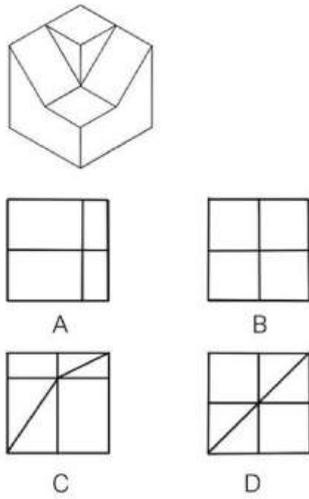
Through which section plane will the given solid pass through?



S No.82

Item Code	Question Type	Ans Key	Marks
51125082	MCQ	B	2

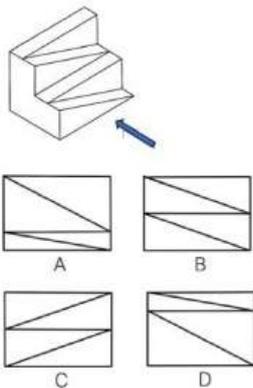
Identify the correct top view of the given figure from the answer options



S No.83

Item Code	Question Type	Ans Key	Marks
51125083	MCQ	B	2

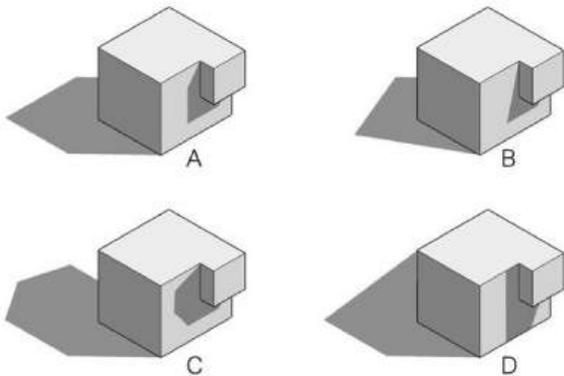
Identify the correct side view of the given problem figure in the direction of the arrow from the answer options.



S No.84

Item Code	Question Type	Ans Key	Marks
51125084	MCQ	A	2

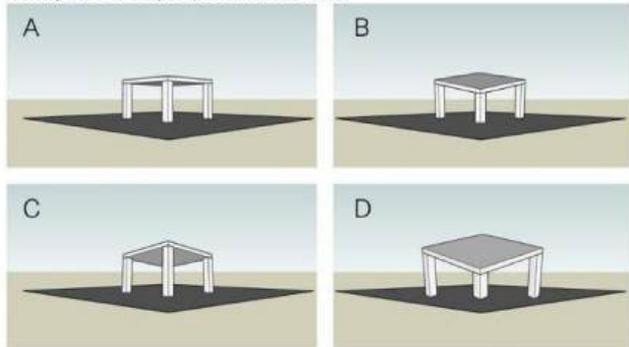
Identify the correct shadow cast for the given object if the angle of light is the same for all the given options.



S No.85

Item Code	Question Type	Ans Key	Marks
51125085	MCQ	C	2

Identify the correct perspective of the table.



S No.86

Item Code	Question Type	Ans Key	Marks
51135086	MCQ	A	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
51135087	MCQ	A	2

What is the colour harmony scheme used in the following image?



- A. Complementary
- B. Primary
- C. Split complementary
- D. Analogous

S No.88

Item Code	Question Type	Ans Key	Marks
51135088	MCQ	A	2

Identify the colouring technique used here.



- A. Overlay and transparency
- B. Opaqueness and solid
- C. Cool colour scheme
- D. Subtractive colouring techniques

S No.89

Item Code	Question Type	Ans Key	Marks
51135089	MCQ	A	2

Which of the following is NOT a 3-colour scheme?

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

S No.90

Item Code	Question Type	Ans Key	Marks
51135090	MCQ	D	2

The flooring tiles incorporate an interesting natural element to make a pattern. What is it?



- A. Twin engine aircraft
- B. Butterfly
- C. Silk worm
- D. Dragonfly

S No.91

Item Code	Question Type	Ans Key	Marks
51145091	MSQ	A, C, E, G, H (Any four will be correct)	2

Choose the **four** most appropriate design attributes suitable to the given composition. Marks will be awarded only if all answers are correct.



- ~~A.~~ Rhythm
- B. Contrast
- ~~C.~~ Pattern
- D. Hierarchy
- ~~E.~~ Repetition
- F. Emphasis
- ~~G.~~ Focus
- ~~H.~~ Symmetry

S No.92			
Item Code	Question Type	Ans Key	Marks
51145092	MSQ	A, B, F, G	2

Choose the **four** most appropriate design attributes suitable to the given composition.
 Marks will be awarded only if all answers are correct.



- ~~A.~~ Rhythm
- ~~B.~~ Movement
- C. Symmetry
- D. Contrast
- E. Datum
- ~~F.~~ Emphasis
- ~~G.~~ Focus
- H. Hierarchy

S No.93

Item Code	Question Type	Ans Key	Marks
51145093	MSQ	B, D, G, H	2

Identify any **four** dictums which most appropriately describe this work of Architect Tadao Ando



- A. Bold and beautiful
- B. Less is More
- C. There are 360°; so why stick to one
- D. Light is the giver of all presences
- E. Less is Bore
- F. Buildings too are children of the Earth and Sun
- G. God is in the details
- H. Simplicity is the ultimate sophistication

S No.94

Item Code	Question Type	Ans Key	Marks
51155094	MCQ	C	2

Identify the illusion type from the options



- A. Ebbinghaus illusion
- B. Lateral Illusion
- C. Tessellation
- D. Gestalt Illusion

S No.95

Item Code	Question Type	Ans Key	Marks
51155095	MCQ	A	2

The sculpture is an abstract depiction of _____.



- A. a bird
- B. a woman
- C. a knife
- D. a buddha

S No.96

Item Code	Question Type	Ans Key	Marks
51155096	MCQ	D	2

The given abstract art work is a depiction of which famous painting?

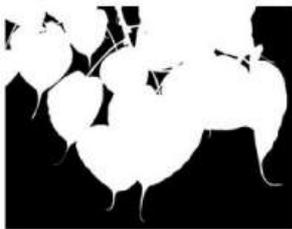


- A. Girl with a pearl earring
- B. The birth of Venus
- C. Indira Devi
- ~~D. Mona Lisa~~

S No.97

Item Code	Question Type	Ans Key	Marks
51165097	MCQ	C	2

Identify the tree from the image shown below.

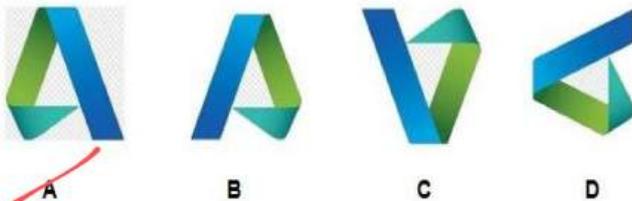


- A. Palm
- B. Gul mohar
- ~~C. Pipal~~
- D. Badam

S No.98

Item Code	Question Type	Ans Key	Marks
51165098	MCQ	A	2

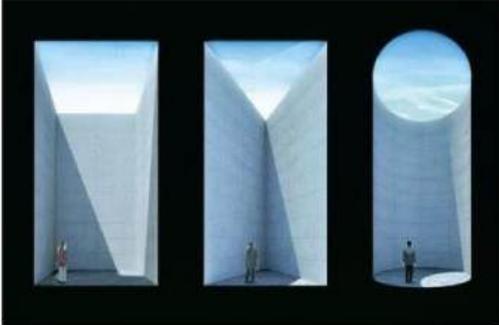
Identify the correct representation of a software company widely used by architects and students of architecture.



S No.99

Item Code	Question Type	Ans Key	Marks
51165099	MCQ	B	2

What does the following set of images depict?

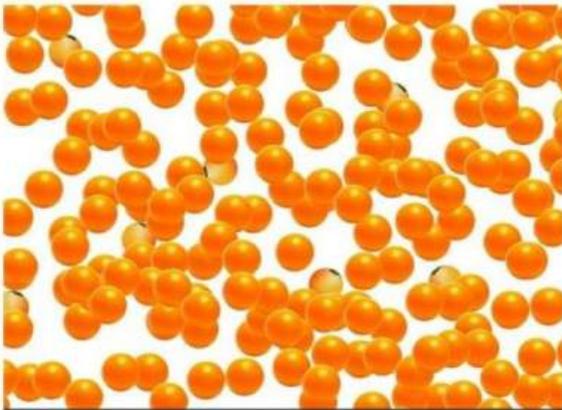


- A. Depicts the form and shape of space.
- B. Depicts the form and light and shade of space.
- C. Depicts the light and shade of space.
- D. Depicts the shape of the space only.

S No.100

Item Code	Question Type	Ans Key	Marks
51165100	NAT	7	2

How many oranges are hidden in the image given below?



S No.101

Item Code	Question Type	Ans Key	Marks
51175101	MCQ	C	2

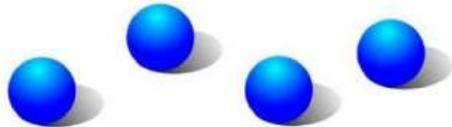
What is half of two + two?

- A. 2
- B. 1
- C. 3
- D. 4

S No.102

Item Code	Question Type	Ans Key	Marks
51175102	MCQ	C	2

How should the four spheres be arranged such that all the spheres are equidistant from each other?

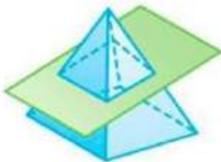


- A. The spheres to be placed in a circular fashion.
- B. Spheres has to be arranged at corners of the square.
- C. Spheres has to be placed on a tetrahedron with all faces with equilateral triangles.
- D. Spheres has to be placed on the base of a square prism.

S No.103

Item Code	Question Type	Ans Key	Marks
51175103	MCQ	A	2

Describe the shape resulting from an angled cross section of a square pyramid as shown below.

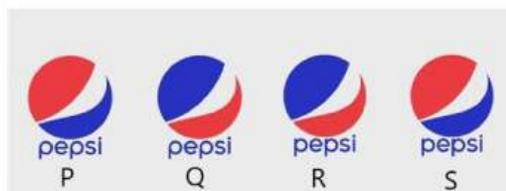


- ~~A. Trapezoid~~
- B. Square
- C. Rectangle
- D. Triangle

S No.104

Item Code	Question Type	Ans Key	Marks
51175104	MCQ	A	2

Identify the CORRECT logo from the options



- ~~A. P~~
- B. Q
- C. R
- D. S

S No.105

Item Code	Question Type	Ans Key	Marks
51175105	MCQ	B	2

Which word does not logically belong in the list below?

glance, anchor, charge, arcade, casino

- A. anchor
- B. casino
- C. arcade
- D. glance

S No.106

Item Code	Question Type	Ans Key	Marks
51175106	MCQ	B	2

If a means '+'; b means 'x'; c means '+' and d means '-', then $4a5b30c10d7=?$

- A. 54
- B. 12
- C. 20
- D. 90

S No.107

Item Code	Question Type	Ans Key	Marks
51175107	MCQ	D	2

What is the smallest integer greater than 1 that is both a perfect square and a perfect cube?

- A. 128
- B. 729
- C. 81
- D. 64

S No.108

Item Code	Question Type	Ans Key	Marks
51175108	MCQ	D	2

There are 18 parrots. All but two of them are red. All the red ones but three are dangerous. All the dangerous parrots but four fight. How many dangerous red parrots fight?

- A. 11
- B. 13
- C. 15
- D. 9

S No.109

Item Code	Question Type	Ans Key	Marks
51175109	MCQ	D	2

In which decade of the 20th century were none of the years divisible by 11?

- A. 1970's
- B. 1990's
- C. 1900's
- D. 1980's

S No.110

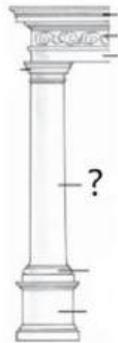
Item Code	Question Type	Ans Key	Marks
51175110	NAT	25	2

A is 75% less than B and C is 75% of the difference between A and B. By what percentage is C more than A?

S No.111

Item Code	Question Type	Ans Key	Marks
51185111	MCQ	D	2

A column has different parts. Identify the part that is indicated with a question mark.



- A. Base
- B. Capital
- C. Pedestal
- ~~D. Shaft~~

S No.112

Item Code	Question Type	Ans Key	Marks
51185112	MCQ	A	2

Identify the building material used in this temple?



- ~~A. Marble~~
- B. Limestone
- C. Granite
- D. Ceramic tiles

S No.113

Item Code	Question Type	Ans Key	Marks
51185113	MSQ	Bonus to all those who attempted	2

Identify the **four** non-architectural elements in the image given below.
Marks will be awarded only if all answers are correct.



- A. Jalli
- B. Brackets
- C. Planter
- D. Stone masonry
- E. Cacti
- F. Planter
- G. Glass
- H. Light fixture

S No.114

Item Code	Question Type	Ans Key	Marks
51185114	MSQ	A, C, D, E	2

Identify **four** architectural/ building elements in the image given below.
Marks will be awarded only if all answers are correct.



- ~~A.~~ Rafters
- ~~B.~~ Trees
- ~~C.~~ Terracotta tiles
- ~~D.~~ Balcao
- ~~E.~~ Ridge
- F. Garden
- G. Stone masonry
- H. Chajas

S No.115

Item Code	Question Type	Ans Key	Marks
51185115	MSQ	B, D, F, H	2

Identify **four** building elements/ components in the image given below.
Marks will be awarded only if all answers are correct.



- A. Curtains
- ~~B.~~ Eaves board
- C. Jalli
- ~~D.~~ Balusters
- ~~E.~~ Colonnade
- ~~F.~~ Brackets
- G. Ramp
- ~~H.~~ Cantilever

S No.116

Item Code	Question Type	Ans Key	Marks
51195116	MCQ	C	3

Carefully observe the front view of a given building.
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.



Which is the most dominant shape in the central entrance panel of the building?

- A. Square
- B. Circle
- C. Rectangle
- D. Rhombus

S No.117

Item Code	Question Type	Ans Key	Marks
51195117	NAT	3 Or 4	3

Carefully observe the front view of a given building.
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 colours do you see on the façade?

51195118

MCQ

C

3

Carefully observe the given image of a chest of drawers.
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 drawers with the colors indicated below does not have a knob?



A



B



C



D

S No.119

Item Code

Question Type

Ans Key

Marks

51195119

NAT

1

3

Carefully observe the given image of a chest of drawers.
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 red color drawers are on the chest?

S No.120

Item Code	Question Type	Ans Key	Marks
51195120	MCQ	A	3

Carefully observe the given image of a building.

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 storeys in the building in the foreground?

- ~~A.~~ Ground + 3 floors
- B. Ground + 4 floors
- C. 3 Storeyed building
- D. Both A and C

S No.121

Item Code	Question Type	Ans Key	Marks
51195121	NAT	32	3

Carefully observe the given image of a building.

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 seen on the building?

S No.122

Item Code	Question Type	Ans Key	Marks
51195122	NAT	20	3

Carefully observe the given image of a dart board.

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.



Enter the highest number displayed on the dart board?

S No.123

Item Code	Question Type	Ans Key	Marks
51195123	MCQ	D	3

Carefully observe the given image of a dart board.

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.



On which number is the red dart seen?

A. 8

~~B. 20~~

C. 16

D. Both A and B

S No.124

Item Code	Question Type	Ans Key	Marks
51195124	NAT	5	3

Carefully observe the given image set comprising of Indian rupee coins

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 coins were seen with the obverse (heads) side up?

S No.125

Item Code	Question Type	Ans Key	Marks
51195125	NAT	2007 Or 2011 Or 2003	3

Carefully observe the given image set comprising of Indian rupee coins

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.



Name any one year displayed on the set of coins