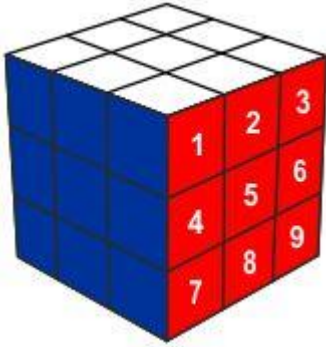


ASHOKA UNIVERSITY
ASHOKA APTITUDE ASSESSMENT (AAA) - SAMPLE PAPER 1

Q. No.	Questions
1	The view of an object from above is called its top view. Which of these is the TOP view of the given 3D solid? A B C D A. A B. B C. C D. D
2	A representative sample is a subset of a larger group or population that accurately reflects the characteristics, attributes, diversity (or other key interest areas) of that larger group. Which of the following experiments is <u>MOST LIKELY</u> to give the researcher a representative sample for their study?

	A. Mitwa wants to know whether her coworkers prefer tea or coffee. She randomly selects a bunch of people of different ages and varying food habits from the office to survey. B. Agni conducts a study to investigate the effects of a new dietary supplement on weight loss. To recruit participants for the study, he advertises widely in a variety of fitness magazines and sports clubs. C. Anima wants to study reliance on smartphones in her university setting. She distributes an online survey through the university's official Instagram page to collect data on smartphone usage patterns among students. D. Ismail conducts a study on the effectiveness of a new education program in his district. He plans to administer a post-program assessment to the football team who stays back for after-school sports practice and analyse their performance data.
3	Read the passage given below and answer the question that follows. "In March, Microsoft launched Tay, an AI chatbot, on Twitter. Within 16 hours, they had to remove it because it mimicked the offensive messages it received. Microsoft apologised, underscoring that current AI can easily be influenced. The focus should be on AI's present challenges rather than futuristic fears." The above passage is a counter-argument to one of the following claims. Which claim is that MOST LIKELY to be? A. AI is being modelled in a way that is indistinguishable from human behaviour, and that can be incredibly dangerous especially on social media sites. B. AI has immense potential to problem-solve and fix the most impossible challenges faced by humanity, due to its relatability and smartness. C. AI has little understanding of ideology or morality, and simply absorbs and regenerates information without exercising discretion or criticality. D. AI poses an existential threat to humankind, and if not handled carefully, has the potential to control or wipe out the human race.
4	Rubik's Cube is a 3D puzzle. In this, each face of the cube is differently coloured, and divided into 9 smaller squares, as shown in the figure below. The Rubik's Cube can be scrambled by turning any of the layers formed using the vertical or horizontal partitions.



Sujit holds the Rubik's cube such that the red face is in front of him. He then scrambles the Rubik's cube by turning exactly one layer (either top, bottom, right or left) in the clockwise or anti-clockwise direction.

Which of these numbered squares will continue to be right in front of Sujit?

- A.** 1
- B.** 5
- C.** 8
- D.** (There exists no such piece.)

- 5 City planning is integral in shaping the social and political life of citizens. The type of public transportation available tells us about affordability and safety. The grandeur of official buildings can show us the economic status of the country, its architectural history, or how the government would like to be remembered. The city plan reveals who the space is catered to serve, and who it excludes.

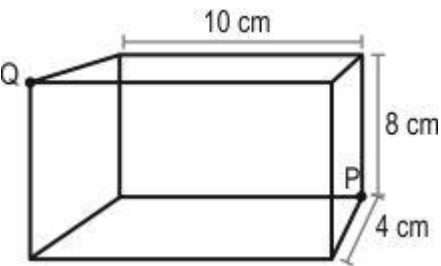
Imagine a city with large and high-tech buildings, smart office spaces, multiple large parking spaces, green parks that have paid access, and no footpaths or crossings. Which of the following would be DEFINITELY TRUE about this city?

- A.** The city makes it difficult for low-income classes to survive.
- B.** The city is beautiful to walk around and has low levels of crime.
- C.** The city is built for the labour class and makes it easy to earn a living.
- D.** The city has an inclusive and vibrant culture with cosmopolitan values.

- 6 An ad hominem attack is when someone attacks the person making the argument, instead of the argument itself.

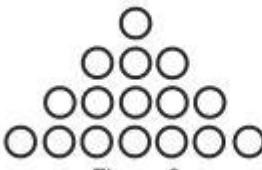
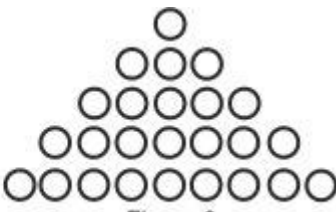
Given below are four invalid arguments. Identify the ad hominem argument.

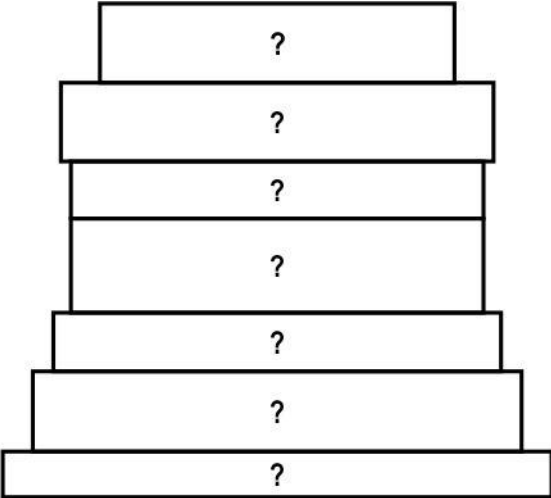
- A.** The content is fine, but the person chosen to give this speech would cause a public relations nightmare for our company.
- B.** Her habit of skipping breakfast will impact not just her health, but also her ability to complete tasks in the long run.
- C.** This book on financial planning is not credible, given the author herself is not very rich.

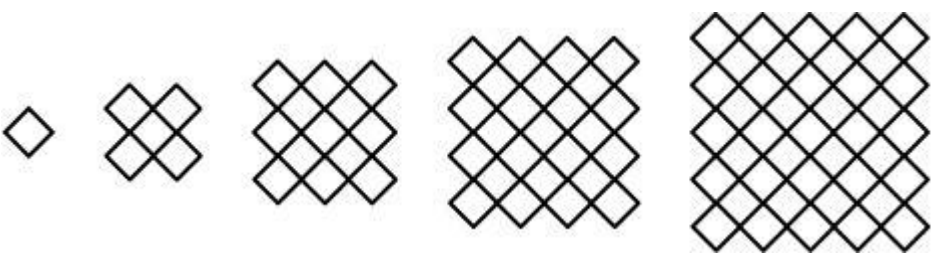
	D. People who argue for veganism often come from a place of privilege.
7	Dark green and light green grass patches need to be put in a football field of dimensions 120 m x 91 m, as shown in the figure below. The cost of a dark green grass patch is Rs 2100/m² and that of a light green grass patch is Rs 2400/m².  What is the ratio of the cost of putting dark green grass patches to the cost of putting light green grass patches on the field? A. 3:4 B. 4:3 C. 7:8 D. 49:48
8	Travelling only along the edges and covering a distance of exactly 22 cm, how many different routes can be taken to go from corner P to corner Q of this cuboid?  A. 10 B. 8 C. 6 D. 1

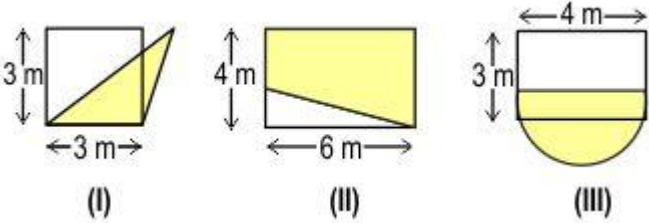
9	Adriana Petryna, in a book about the Chernobyl nuclear disaster, coined the term "Biological Citizenship". This refers to the ways in which Ukrainian citizens in Chernobyl-affected regions negotiate with state institutions based on their perceived levels of radiation exposure, to avail the benefits that are, on paper, offered to all citizens. For instance, some may undergo complex medical examinations and tests to prove their radiation exposure and establish their eligibility for state-provided compensation as "Chernobyl-sufferers". One's citizenship status, generally, comes with certain rights and guaranteed access to state amenities. Based on the above passage, what does citizenship DEFINITELY mean for "Chernobyl-sufferers" in Ukraine? A. They can become political citizens only once they have proven their suffering. B. They have access to only biological citizenship, not political citizenship. C. The benefits of citizenship are dependent on their ability to prove suffering. D. The benefits of citizenship are only easily available to non-sufferers of Chernobyl.
10	Tejas works in a logistics company. One day, he delivered 10 more than half the packages allotted to him in the morning. And after lunch, he delivered 15 more than half the remaining packages. If he completed all his allotted deliveries that day, how many packages did he deliver? A. 70 B. 80 C. 120 D. (cannot be determined)
11	A straw man argument is a type of fallacy (<i>mistaken belief</i>) in which one person misrepresents or exaggerates their opponent's position or argument to make it easier to attack or refute. Given below are four invalid arguments. Identify the straw-man argument. A. The two people I met from this city have been extremely rude to me, I'm expecting everyone in this city to be arrogant and hostile. B. She ate an apple before her exam, and did not score well. Despite this, she kept eating apples and wondering why she was having bad luck. C. You should not take his advice on financial planning seriously. His personal finances are in terrible condition and he has been in debt multiple times. D. People who argue for reducing the defence budget clearly have no respect for our national security and want to leave our country vulnerable to attacks from enemies.
12	Read the following poem by writer Jacinta Kerketta and answer the question that follows. They want to drag the trees

	into the mainstream But do trees uprooted from their land ever become mainstreamed? This is why trees are cut down. Which of the following issues is the poet addressing through this poem? A. The chopping of forest trees and replanting them in gardens B. Forced eviction of indigenous communities from their homeland C. Mass urban migration of people to look for jobs and a better standard of living D. The interference of mainstream media in the politics of forest-dwelling societies.
13	The practice of ethical consumption is rooted in the idea that individual consumer choices can collectively drive positive change by influencing corporate behaviour. This approach takes into account various factors beyond price and quality, including the social, ecological and ethical consideration of products. Since what is considered ethical can vary, ethical consumption is often influenced by personal values. Vyom, a careful consumer who works as a fashion influencer, goes out of his way to buy niche imported fashion products that are cruelty-free, produced in safe working conditions. Which of the following is NOT one of his ethical priorities? A. promoting animal welfare B. reducing his carbon footprint C. ensuring fair labour practices D. only buying essentials to make a living
14	Study the pattern carefully. 4 # 2 = 14 3 # 3 = 6 5 # 4 = 21 Which of the following is equal to 9 # 7? A. 16 B. 63 C. 64 D. 74
15	x, y are real numbers. $(3x + 5y - 29)^2 + (5x + 3y - 27)^2 = 0$. Find the value of $(x + y)$. A. -7

	B. 1 C. 2 D. 7
16	Cotton is really important to developed economies, but for least-developed and developing countries, it is a safety net. Cotton is a major source of income for many rural labourers, including women, providing employment and income in the poorest areas of the world. It is also comfortable, hypoallergenic, breathable and durable, making it ideal for hot climates. The third official UN World Cotton Day initiative was taken up by C4 - or the Cotton Four countries - who are amongst the largest producers and users of cotton. Based on this information, which of the following is <u>DEFINITELY FALSE</u> about the C4 countries? A. The C4 have a large labour class of women employed in cotton cultivation. B. The C4 are the most developed nations in the world. C. The C4 engage in cotton trade with many countries. D. The C4 are situated far away from the poles.
17	The pattern shown below consists of circles arranged in a triangular shape.  Figure 1  Figure 2  Figure 3 If the pattern is extended, what will be the TOTAL number of circles in Figure 12? A. 100 B. 121 C. 144 D. 196
18	Niyati wants to understand how safe women in her country feel. She finds some resources online. P - A book about women Prime Ministers that the country has had. Q - A documentary about women's experiences using public transportation. R - A detailed report about the participation of women in the police force. S - An article discussing the laws that protect women's rights in the workforce. Which of the following (combinations of) resources will she <u>DEFINITELY</u> need in order to get the most accurate information?

	A. P and Q B. Only Q C. Only S D. P, R and S
19	Anirudh's study table has a pile of 7 textbooks of Mathematics, English and Economics arranged as shown below. Position 1 Position 2 Position 3 Position 4 Position 5 Position 6 Position 7  Here is how the books are kept. i) The Economics books are placed only at the prime number positions in the pile. ii) There are 4 Mathematics books which are placed together. iii) The book at the top is not a Mathematics book. iv) The fewest amount of books are that of English. Which of the following is DEFINITELY true? A. An English book is at position 1 in the pile. B. An Economics book is at position 3 in the pile. C. A Mathematics book is at position 7 in the pile. D. The Mathematics and English books are next to each other in the pile.
20	Four friends were comparing their heights with each other. Ananya is taller than Bhuvan and Bhuvan is the same height as Cherry. Cherry is shorter than or equal to David. Which of the following statements must be true? A. Ananya is taller than David.

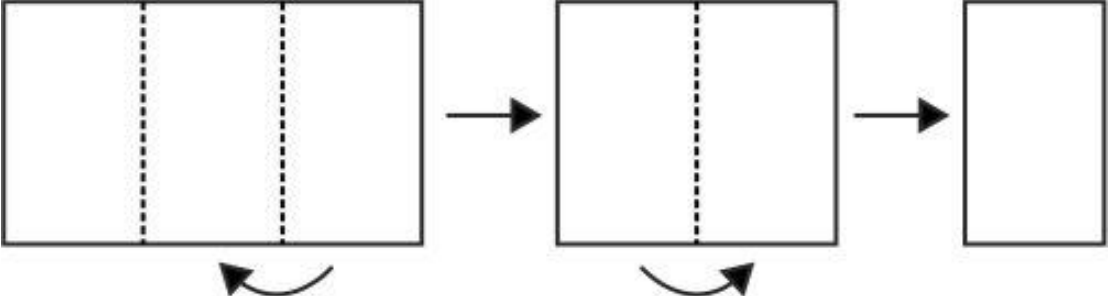
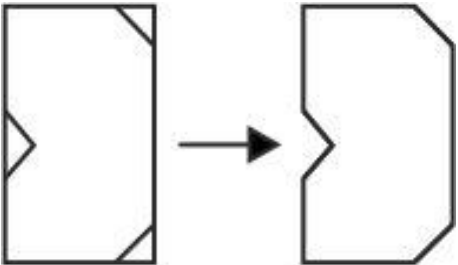
	B. Cherry is taller than Ananya. C. Bhuvan is not taller than David. D. Bhuvan's height is more than the average of the 4.
21	"In a recent news report on crime rates, it was mentioned that there's been an increase in crime in cities that have recently implemented stricter gun control laws. This clearly demonstrates that gun control doesn't work and, in fact, leads to higher crime rates. The data speaks for itself, showing that when citizens are disarmed, criminals are emboldened, and crime rises. Therefore, it's evident that the solution to reducing crime is to relax or eliminate gun control measures." Which of the following is definitely a flaw in the argument presented in the paragraph? A. The argument uses a small sample size to draw a general conclusion. B. The argument assumes a direct causal relationship based on a correlation. C. The argument uses emotionally charged language and rhetoric rather than logic. D. The argument fails to mention any data or evidence to support its claims.
22	Read the excerpt and answer the question that follows. Language is dynamic, full of life and self-expression, often defying translation. Languages chronicle their journeys across time, capturing changes in the social fabric. Every aspect of language is deemed significant, with each detail revealing the internal logic of the language system and its movement across time. Which of the following is an example of a language chronicling its movement? A. A record of how legal terminology evolved during the colonial period. B. A list of scientific words added to the Oxford English Dictionary in 2012. C. An old inscription dictating rule of Sanskrit grammar. D. An old Hindi song remixed with modern beats.
23	A pattern made using identical square tiles is given below. 

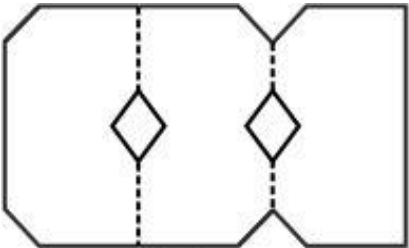
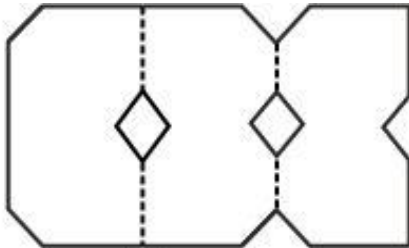
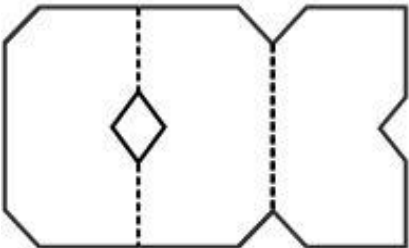
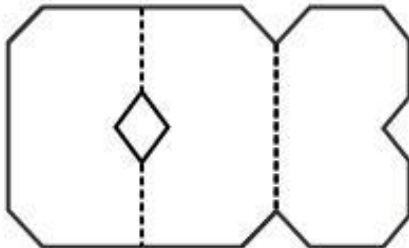
	What is the number of tiles required to make the 21st figure in the pattern? A. 441 B. 661 C. 841 D. 925
24	Look at the figures shown below.  (I) (II) (III) The area of which shaded part(s) CANNOT be measured using the given information in the figures? A. Only (II) B. Only (III) C. Both (I) and (II) D. Both (I) and (III)
25	Mina's bakery sells 3 kinds of biscuits: • Peanut butter biscuits • Almond biscuits • Sesame biscuits A customer orders an assorted gift box from Mina's bakery with the following specification: The gift box must contain exactly 5 biscuits that don't contain peanuts, exactly 8 biscuits that don't contain almonds, and exactly 7 biscuits that don't contain sesame. How many peanut butter biscuits were there in the gift box Mina sent to the customer? A. 1 B. 5 C. 7 D. 10
26	The owner of a fast-food stall collected 60 notes in denominations of Rs 10 and Rs 50 at the end of the day. If the total amount of money the owner collected is Rs 2440, then how many notes of Rs 10 did he collect? A. 12 B. 14 C. 46 D. 48

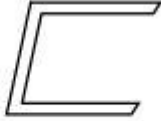
27	During a recent check on State X's schools, volunteers found the buildings in poor condition, unpaid teacher salaries and a lack of adequate water and meals. Students also stated that they had forgotten to read and write; they were provided no textbooks. Although there are exceptions, the government's lack of enthusiasm for improving the condition of schools in the state has led to decades of neglect, the report notes. There are a number of immediate steps that the state government needs to take to resolve the current situation. Which of the following is <u>NOT</u> one of them? A. Implement mid-day meal program for students and organising health check-ups. B. Construct parks, activity rooms and other resources for students' holistic development. C. Revamp the administrative policies for schools and revise benefits for educators in the state. D. Set up a commission that would oversee the proper implementation of the Right to Education Act.						
28	Neejil wants to buy some shirts for himself. The table below shows his preferences. <table><tr><th>Brand Name</th><th>Colour</th><th>Type</th></tr><tr><td>?</td><td>1. Black 2. Blue 3. Green 4. Yellow</td><td>1. Formal shirt 2. Casual shirt 3. T-shirt</td></tr></table> If he has 36 unique combinations of brand names, colour and type, how many brand names are there in his table of preferences? A. 36 B. 29 C. 9 D. 3	Brand Name	Colour	Type	?	1. Black 2. Blue 3. Green 4. Yellow	1. Formal shirt 2. Casual shirt 3. T-shirt
Brand Name	Colour	Type					
?	1. Black 2. Blue 3. Green 4. Yellow	1. Formal shirt 2. Casual shirt 3. T-shirt					
29	Over a century ago, Henry Ford revolutionised car production by investing heavily in new electrical machinery and developing a more efficient assembly line. Yes, these new technologies brought some amount of automation, as centralised electricity sources enabled machines to perform more tasks more efficiently. But the reorganisation of the factory that accompanied electrification also created new tasks for workers and thousands of new jobs with higher wages, bolstering shared prosperity. Ford led the way in demonstrating that creating human-complementary technology is good business. Which of the following best expresses the main principle of the above argument? A. Without investing heavily in capital infrastructure, wealth generation cannot be brought about. B. Factory reorganisation is the key element that determines a change in job profiles. C. Anything that has a human element in it is good business.						

	D. Technology should not be built as an end in itself, but as a means to further human-centric growth.
30	Read the summary provided below and answer the question that follows. "Sultana's Dream," a 1905 feminist utopian novella by Rokeya Sakhawat Hossain, depicts a world where women are in power and men confined in domestic roles. When protagonist Sultana enquires about the absence of men in public spaces, Sister Sara says, that they are "where they ought to be." The story challenges conventional gender roles and advocates for women's empowerment. Through this gender-flipped society, the novella encourages readers to envision a world without gender discrimination, offering equal opportunities to all. What is the MOST LIKELY purpose for Rokeya using the phrase "where they ought to be"? A. To imagine a reality where women empower men. B. To express her opinion that men need to be confined to the domestic sphere. C. To express contempt for the ways in which men carry out public office and social responsibilities. D. To highlight the absurdity of the existing societal norms that dictate men's superiority and women's inferiority.
31	Guns, Germs, and Steel (1997) by Jared Diamond suggests that geographical, climatic, and biological advantages, rather than cultural or societal factors, shaped history's course. Diamond highlights Eurasia's diverse climate and resources, giving it an edge in agriculture, disease resistance, and metallurgy. While the book is praised for covering a wide range of topics, critics point out that it mainly focuses on European views and suggests that historical events are pre-decided or unavoidable, not allowing much room for other influences or choices. Based on the above summary, which of these is an argument AGAINST Diamond's theory? A. African societies had to contend with an influx of tropical diseases, which impacted social organisation. B. Political ideals, individual leadership, and Enlightenment Age ideas drove the American revolution. C. The Mongol Empire's ability to conquer vast territories was facilitated by their superior horsemanship and military tactics. D. The Silk Road facilitated the exchange of goods, ideas, and technologies between East and West.
32	While emotional appeals can be effective, they do not form valid arguments. Given below are four arguments for veganism: assuming the facts here all true, identify the argument that uses an appeal to emotion rather than logic. <i>(Veganism - The practice of not eating or using any animal products, including meat, milk, leather, wool, etc.)</i>

	A. Raising livestock for consumption is the greatest cause for global warming and increased amounts of methane in the environment. If the world went vegan, it would essentially slow down climate change. B. The amount of water used to raise livestock that produces a few litres of milk would be enough to grow crops that could feed a lot of people: by eating meat, you are ensuring somebody else's hunger. C. It is proven that animals feel pain, and there is an unacknowledged guilt while consuming them which, doctors have found, has an effect on one's nervous system. D. Vegan food habits help reduce animal exploitation for meat, exemplifying the theory that all sentient beings have a right to life and freedom.
33	The keyboard on Avinash's phone has a problem. When he taps on a certain letter, sometimes a different letter altogether comes up on screen. Three of the keyboard errors on Avinash's phone are given below. Note that these are just a few instances, and there may be other errors as well. On tapping "L", the screen displays "S" On tapping "S", the screen displays "P" On tapping "P", the screen displays "A" If Avinash clicks on S, E, P, A and L in order, then which of the following could his screen display? A. LAPSE B. PALES C. LEAPS D. PEALS
34	Syed makes a pattern, as shown below, using matchsticks. He wants to make 20 such matchstick figures.  Fig 1 Fig 2 Fig 3 Fig 4 How many matchsticks would he need to make Fig 20? A. 39 B. 41 C. 57 D. 60
35	In 2016, India and Bangladesh resolved a 70-year dispute by exchanging over 160 enclaves, affecting 50,000 residents. Previously, these enclave dwellers faced challenges accessing amenities and even basic tasks like market visits due to their unique citizenship status. They

	would technically need a visa to enter the neighbouring country, but obtaining one required illegally traversing that very country to reach their own nation's major city. <i>(enclave: a small part of one country which is cut off from the mainland and completely surrounded by another country)</i> According to the passage, what is the relationship between citizenship and access to amenities? A. Without citizenship, one cannot access state amenities. B. The extent of access to amenities determines citizenship status. C. Citizenship status alone does not guarantee access to state amenities. D. Citizenship and access to state amenities exist independently of each other.
36	A rectangular sheet of paper is folded twice as follows:  Three cuts are made on the folded rectangle, as shown below:  Which of the following will the paper look like when it is unfolded?

	 A  B  C  D A. A B. B C. C D. D
37	The imaginary country of Genovia came into existence on January 1st 2022, and created a new calendar for itself that ran slightly differently from the Gregorian Calendar. This calendar does not include Saturdays and Sundays, i.e., a week is composed of five days, from Monday-Friday. Each month in this calendar is 15 days and there are 12 months in a year. These 12 months are the same as the months in the Gregorian calendar. This calendar gets implemented on the day that the Gregorian calendar shows January 1st 2022, and the Genovian calendar shows the same date on that day. What date will it be on the Genovian calendar when the Gregorian calendar shows the date 31st December 2022? <i>(Note: The Gregorian Calendar is the one we use - with 365 or 366 days a year and 7 days a week.)</i> A. December 31, 2023 B. February 10, 2024 C. January 5, 2024 D. January 6, 2025
38	A boy 5 feet tall has a shadow of 7 feet. At the same time, the shadow of a tree is 28 feet long. What is the height of the tree? A. 20 feet

	B. 26 feet C. 35 feet D. 39.2 feet
39	Rangan, a blacksmith from the Kota tribe in Puddu Kotagiri, Nilgiris, Tamil Nadu, continues a generations-long family trade. However, with tea plantations expanding, and replacing millet fields, the demand for blacksmiths has declined. From 1971-2008, tea cultivation in the Nilgiris tripled, leading to reduced need for their products. What is the MOST LIKELY reason for this relationship between tea cultivation and the work of blacksmiths? A. A mass migration of people to the Nilgiris resulted in people choosing tea cultivation as their source of income since it was not as laborious as ironwork. B. Tea cultivation does not require iron tools such as ploughs or rakes which were essential for the cultivation of millet, hence reducing the demand for iron tools. C. The lands over which tea cultivation is spreading were previously lands that belonged to blacksmiths, and the loss of this land meant that they had no place to work. D. The soil conditions and fertiliser products required for tea cultivation caused iron tools to rust faster and get damaged more easily, hence making iron tools harder to maintain
40	Which of the following figures has only one line of symmetry?  A  B  C  D A. A B. B C. C D. D

ANSWER KEY & SKILL

Q. No.	Rubric	Skill
1	D	<i>Quantitative Reasoning</i>
2	A	<i>Logical Reasoning</i>
3	D	<i>Logical Reasoning</i>
4	B	<i>Quantitative Reasoning</i>
5	A	<i>Logical Reasoning</i>
6	C	<i>Logical Reasoning</i>
7	A	<i>Quantitative Reasoning</i>
8	C	<i>Quantitative Reasoning</i>
9	C	<i>Logical Reasoning</i>
10	B	<i>Quantitative Reasoning</i>
11	D	<i>Logical Reasoning</i>
12	B	<i>Logical Reasoning</i>
13	B	<i>Logical Reasoning</i>
14	D	<i>Quantitative Reasoning</i>
15	D	<i>Quantitative Reasoning</i>
16	B	<i>Logical Reasoning</i>
17	D	<i>Quantitative Reasoning</i>
18	B	<i>Logical Reasoning</i>
19	A	<i>Quantitative Reasoning</i>
20	C	<i>Quantitative Reasoning</i>
21	B	<i>Logical Reasoning</i>
22	A	<i>Logical Reasoning</i>
23	C	<i>Quantitative Reasoning</i>
24	A	<i>Quantitative Reasoning</i>
25	B	<i>Quantitative Reasoning</i>
26	B	<i>Quantitative Reasoning</i>
27	B	<i>Logical Reasoning</i>
28	D	<i>Quantitative Reasoning</i>
29	D	<i>Logical Reasoning</i>
30	D	<i>Logical Reasoning</i>
31	B	<i>Logical Reasoning</i>
32	B	<i>Logical Reasoning</i>
33	D	<i>Logical Reasoning</i>
34	A	<i>Quantitative Reasoning</i>
35	C	<i>Logical Reasoning</i>
36	C	<i>Quantitative Reasoning</i>
37	C	<i>Quantitative Reasoning</i>
38	A	<i>Quantitative Reasoning</i>
39	B	<i>Logical Reasoning</i>
40	A	<i>Quantitative Reasoning</i>