

ASHOKA APTITUDE ASSESSMENT

SAMPLE QUESTIONS

UNDERGRADUATE ADMISSIONS

Question 1: Bob the policeman noticed that there were more drowning accidents on days when the ice cream vendor next to the lake had long lines. Intrigued by this correlation, Bob decided to investigate further. On a graph, he plotted the number of drowning accidents per month on the x-axis and the ice cream sales per month on the y-axis. As he added the data points, he noticed a surprising trend: the graph line showed an almost perfect correlation, that is, as the sales of the ice-cream increased, so did the drownings.

Based on this, Bob's boss is recommending a temporary closure of the ice cream stand until the matter is investigated. Which of the following, if proven, would cause to the officer to change his decision?

Option A: Customers of all ages frequent the ice cream stand.

Option B: The crowd at the lake varies with seasonal changes.

Option C: The components of the ice cream are harmful or poisonous. Option

D: The types of swimming activities allowed in the lake are safe and supervised.

Correct Answer: B

Question 2: Shown below is an equation.

$$7x - 3|y| = 7$$

How many integer solution(s) are possible for the set (x,y) ?

Option A: only 1

Option B: only 2

Option C: more than 2

Option D: *(It has no integer solution)*

Correct Answer: C

Question 3: Read the passage given below and answer the question that follows.

“In the course of my research I realized that the picture of egg and sperm, drawn in

popular as well as scientific accounts of reproductive biology, relies on stereotypes



central to our cultural definitions of male and female. The stereotypes imply not only that female biological processes are less worthy than their male counterparts but also that women are less worthy than men. Part of my goal in writing this article is to shine a bright light on the gender stereotypes hidden within the scientific language of biology.”

Which of the following options follows from the same principle as the one used by Martin?

Option A: Artists play the most important role in determining how we view scientific objects around us, since their rendering of these objects makes the greatest impression on us.

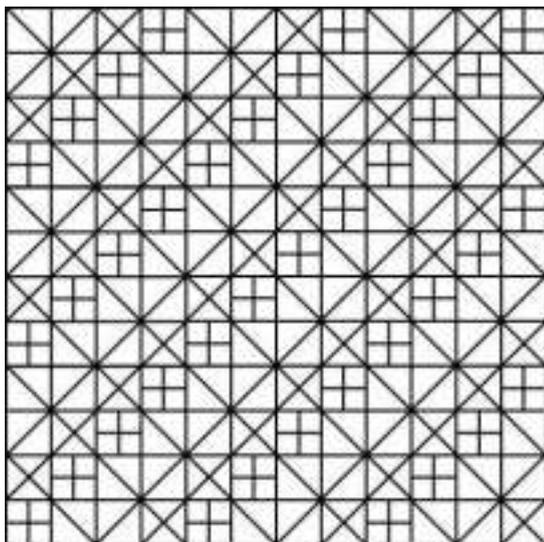
Option B: Every description of an event by a historian relies on the subjective understanding of the world that a historian holds. Assumptions inadvertently find their way into even the most objective accounts.

Option C: The strict disciplinary boundaries between technical/scientific and literary/social studies are often unfounded and arbitrary. Putting them in conversation with each other is the job of a good researcher.

Option D: One’s view of the world is determined by the environment in which one grows up; and no matter how hard you try to change or re-evaluate it, conditioning and biases form a permanent basis for one’s thought process.

Correct Answer: B

Question 4: Take a look at the following pattern



Which of these pieces can be used repeatedly to create the above pattern? No piece may be used partially.

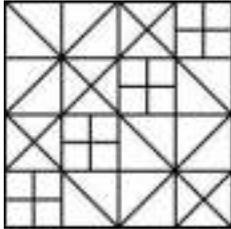
Option A:



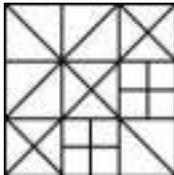
Option B:



Option C:



Option D:



Correct Answer: C

Question 5: Grierson's Linguistic Survey of India is credited to be one of the first and most extensive projects undertaken during the colonial rule. The counting, translating, grouping and tracing of Indian languages became integral to creating a knowledge system that documented the numerous languages and dialects of India. This was used to catalogue people of various identities into several fixed categories.

Which of the following historical projects is most similar in nature to Grierson's Linguistic Survey of India, as described in the passage?

Option A: conducting a census of the people of India

Option B: arranging artefacts in the Indian Museum in Kolkata

Option C: creating a documentary on the language Bodo spoken in North-East India

Option D: writing a book describing the injustices faced by different tribal cultures in India

Correct Answer: A

Question 6: A bakery produces two types of bread, baked and steamed on a certain day.

- ◆ The ratio of the number of baked bread loaves to steamed bread loaves produced is 4:5.
- ◆ Each baked bread loaf requires 0.35 kg of flour, while each steamed bread loaf requires 0.45 kg of flour.
- ◆ The bakery uses 73 kg of flour in total to produce these bread loaves on that day.

How many loaves of each type did they produce?

- Option A: Baked bread = 20, Steamed bread = 25
- Option B: Baked bread = 40, Steamed bread = 50
- Option C: Baked bread = 48, Steamed bread = 60
- Option D: Baked bread = 80, Steamed bread = 100

Correct Answer: D

Question 7: For a trip, Kartik first travelled on a bike and then he took a bicycle for his remaining journey. His average speed on the bike was 40 km/hr and that on the bicycle was 12 km/hr. For his 168 km long journey, he took 7 hours.

What is the distance travelled by him on the bicycle?

- Option A: 14 km
- Option B: 24 km
- Option C: 48 km
- Option D: 120 km

Correct Answer: C

Question 8: Three friends were comparing their expenditures done in the past month. Their findings were:

- ◆ Dipika's expenditure was $\frac{8}{7}$ of Jay's expenditure.
- ◆ Jay's expenditure was $\frac{6}{5}$ of Khushi's expenditure.
- ◆ The average expenditure of Dipika, Jay and Khushi equalled Rs 10000.

What was Jay's expenditure in that month?

- Option A: Rs 8400
- Option B: Rs 10080
- Option C: Rs 11520
- Option D: Rs 12000

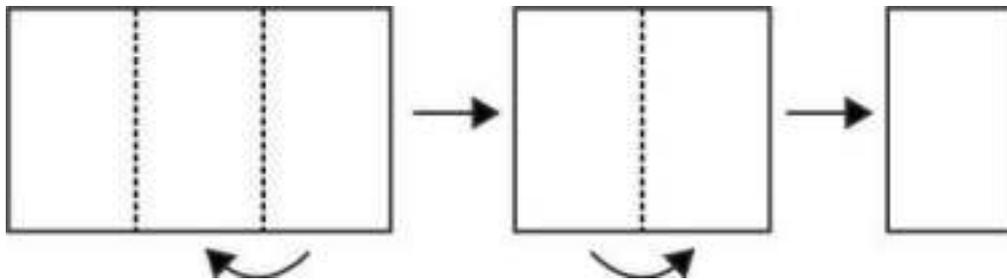
Correct Answer: B

Question 9: Using a code, the word KIWI is written as NGZG and PINS is written as SGQQ, then how would the word KEEP be written in this code?

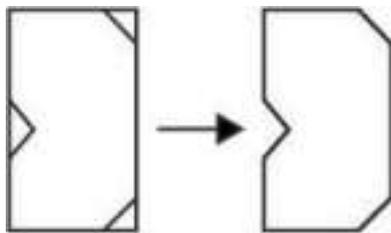
- Option A: NHHS
- Option B: IGGN
- Option C: NCHN
- Option D: IHGS

Correct Answer: C

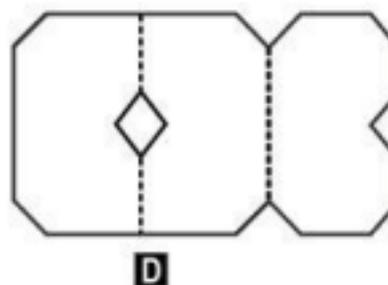
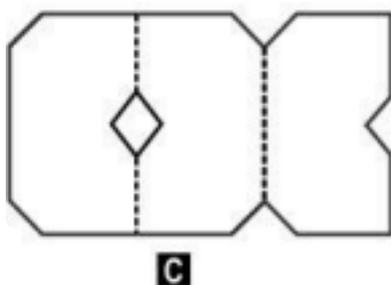
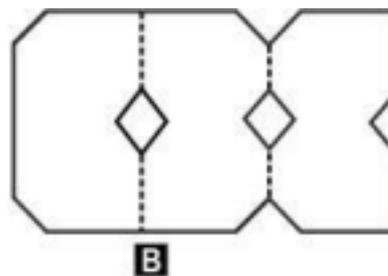
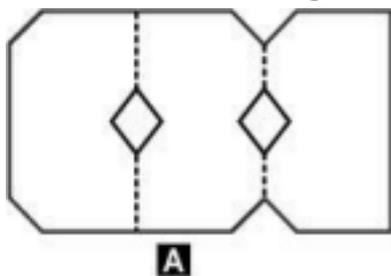
Question 10: A rectangular sheet of paper is folded twice as follows:



Three cuts are made on the folded rectangle, as shown below:



Which of the following will the paper look like when it is unfolded?



Correct Answer: C

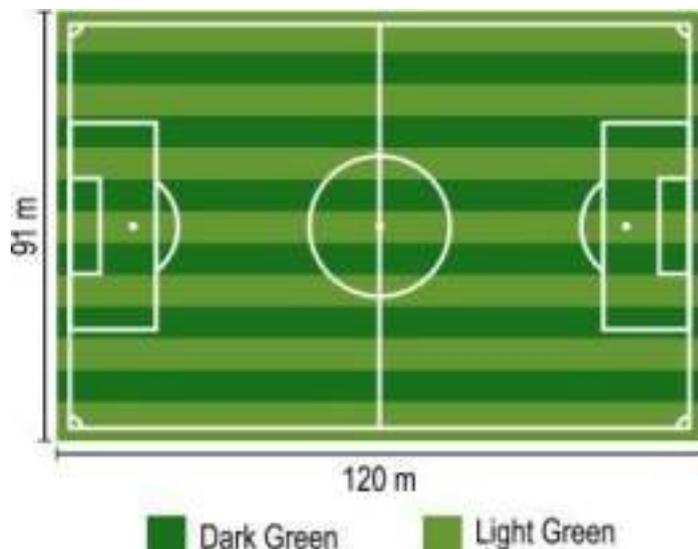
Question 11: A straw man argument is a type of fallacy (mistaken belief) in which one person misrepresents or exaggerates their opponent's position or argument to make it easier to attack or refute.

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.

Correct Answer: D

Question 12: 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

Correct Answer: A



Question 13: 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

Correct Answer: D

Question 14: Shakespeare, often dubbed the father of modern English, introduced many new words, some borrowed or combined from different languages, through his plays. It is important to remember that Shakespeare wrote to earn a living and navigate the demands of his era, and he needed to gain and retain the social and financial capital required for him to become a successful playwright; his primary aim wasn't to invent words. Yet, his work left a lasting linguistic impact. Which of the following is **LEAST LIKELY** to be a factor that drove him to "invent" new words?

- A. He wanted to establish his creative dominance over other playwrights.
- B. He aimed to oppose the nobility by making English a common man's language.
- C. He needed to create novelty in his plays to ensure a steady and interested audience.
- D. He was required to cater to a multilingual audience and ensure his plays were successful in all of Europe.

Correct Answer: B