# NO. **QUESTION** 1 James will run the CLEX marathon only if Levi does. Levi will run the CLEX marathon if Ivan does. For a person to be eligible to run in the CLEX marathon, he or she must have past experience in completing a marathon of at least a 10 km distance. The farthest distance that James, Levi, and Ivan have completed in a marathon is 12 km, 8 km, and 14 km, respectively. Which one of the following statements must also be true? A. Only Levi will not run in the CLEX marathon. B. James, Levi, and Ivan will run in the CLEX marathon. C. Only Ivan is eligible to join the CLEX marathon. D. Both Levi and James will not run in the CLEX marathon. 2 Only students who have completed a bachelor's degree in a relevant field, passed the entrance exam, and submitted a research proposal will be considered for admission to the PhD program. Additionally, students must have at least one year of research experience and two recommendation letters from faculty members. Which one of the following statements must also be true? A. If a student has completed a bachelor's degree in a relevant field, they will definitely be considered for admission to the PhD program. B. If a student has at least one year of research experience, they will definitely be considered for admission to the PhD program. C. If a student has not submitted a research proposal, they cannot be considered for admission to the PhD program. D. If a student has two recommendation letters from faculty members, they will definitely be considered for admission to the PhD program. 3 Statement: Reading books is essential for intellectual and personal growth. **Assumptions:** I. Reading books is the only way to gain knowledge and expand one's mind. II. All genres of books are equally beneficial for intellectual and personal growth. III. Reading books is a solitary activity that doesn't involve any social interaction. Which of the following assumptions aligns with the statement? A. Assumption I only B. Assumption II only C. Assumption III only D. None of the assumptions align with the statement

To secure a publishing contract with BigHouse Publishing, an author must have written at least three full-length novels and developed a detailed marketing plan. The author can still be considered if they have not previously been published, provided that they have a substantial social media following. Additionally, if an author does not pass the initial manuscript review, they may resubmit only once.

### Which one of the following statements must also be true?

- A. Every author who has a substantial social media following will secure a contract with BigHouse Publishing.
- B. Any author who has written three full-length novels and developed a marketing plan will always secure a publishing contract.
- C. The only way for an author without previous publication to secure a contract with BigHouse Publishing is by writing three full-length novels, developing a detailed marketing plan, and having a substantial social media following.
- D. An author who passes the initial manuscript review on their first submission must not have resubmitted their manuscript.

# **5** The following facts were given to you:

- Many people who travel through the forest leave trash behind.
- All people who do not leave trash in the mountain path come back safe and unharmed.
- Wild animals harm all travellers who leave trash behind.
- Some travellers are also harmed if they are noisy.

#### Which of the following statements is least likely to be true?

- A. If a traveller is harmed, they probably left some trash behind.
- B. If a traveller is harmed but did not leave trash behind, he might have been noisy.
- C. If a traveller is unharmed, he might have been quiet even after leaving some trash.
- D. If a traveller leaves trash in the mountain, they definitely did not leave unharmed.
- A researcher will only be granted funding from the National Science Foundation if they possess a PhD in a related field, have completed at least two successful independent research projects, publish regularly in recognized scientific journals, and have a well-crafted proposal demonstrating the significance of their proposed research. Moreover, if a researcher lacks experience teaching at a university level, they must have at least three published articles in high-impact journals to be considered. If a researcher's initial application is denied, they have the opportunity to revise and resubmit it once.

### Which one of the following statements must also be true?

- A. Any researcher with a PhD, two independent research projects, regular publications, and a well-crafted proposal will be granted funding regardless of their teaching experience.
- B. Only researchers who have been denied once and successfully resubmitted their applications receive funding from the National Science Foundation.
- C. The only path for a researcher lacking university teaching experience to receive funding is to possess a PhD, complete two independent research projects, publish regularly, have a well-crafted proposal, and have at least three published articles in high-impact journals.
- D. A researcher who gets approved on their first application must not have three published articles in high-impact journals.

7

A country is experiencing a surge in DIVOC-20 cases, and the government is exploring options to contain the spread of the virus.

#### **Courses of Action:**

- I. Implement a nationwide lockdown to restrict people's movements and limit the spread of the virus.
- II. Launch an aggressive vaccination campaign to inoculate as many people as possible against the virus.

### Which of the following courses of action logically follows?

- A. I only
- B. II only
- C. Both I and II
- D. Neither I nor II
- To be eligible for the NBA Most Valuable Player (MVP) award, a player must have played in at least 58 games during the regular season. Additionally, the player's team must have qualified for the playoffs.

# Which of the following must be true?

- A. If a player scores the most points in a single game during the regular season, they will definitely be awarded the MVP award.
- B. If a player's team does not qualify for the playoffs, the player cannot be eligible for the MVP award.
- C. If a player has won the MVP award in the previous season, they cannot be eligible for the award in the current season.
- D. If a player is leading in rebounds per game, they will definitely be awarded the MVP award.
- 9 You must accept the given statements as true, even if they appear to contradict commonly known facts. Read all of the conclusions and decide which one logically follows from the given statements.

#### Statements:

- No pig is a goat
- Every goat is a sheep
- A few sheep are pigs

# Conclusions:

- 1. Only some goats are not pigs.
- 2. Some sheep are not goats.

# Which of the following logically follows?

- A. Only Conclusion 1 follows.
- B. Only Conclusion 2 follows.
- C. Both Conclusion 1 and 2 follow.
- D. Neither Conclusion 1 nor Conclusion 2 follows.

### 10

Only employees who have worked at the company for at least three years, passed the skills assessment test, and have completed a minimum of two internal training courses will be eligible for promotion. Additionally, employees must have at least one year of experience in a leadership role and receive a recommendation from their department head.

#### Conclusions:

- I. If an employee has completed a minimum of two internal training courses, they will definitely be eligible for promotion.
- II. If an employee has at least one year of experience in a leadership role, they will definitely be eligible for promotion.
- III. If an employee has not worked at the company for at least three years, they cannot be eligible for promotion.
- IV. If an employee receives a recommendation from their department head, they will definitely be eligible for promotion.

# Which of the following conclusions follow?

- A. All conclusion follow
- B. Both I & II only
- C. Both III and IV only
- D. III only
- You must accept the given statements as true, even if they appear to contradict commonly known facts. Read all of the conclusions and decide which one logically follows from the given statements.

#### Statements:

- All barbers are dancers.
- Some dancers are nurses.
- All nurses are ninjas.
- No barber is a ninja.

# Conclusions:

- 1. Some ninjas are dancers.
- 2. Some ninjas are barbers.

### Which of the following logically follows?

- A. Only Conclusion 1 follows.
- B. Only Conclusion 2 follows.
- C. Both Conclusion 1 and 2 follow.
- D. Neither Conclusion 1 nor Conclusion 2 follows.
- To be accepted into a university, an applicant must satisfy the following requirements:
  - 1. The applicant must have graduated high school or have a GED.
  - 2. The applicant must have a minimum GPA of 2.5 on a 4.0 scale.
  - 3. The applicant must have taken the SAT or ACT.
  - 4. The applicant must submit a personal statement.

### Which of the following statements must be true?

- A. If an applicant has a minimum GPA of 2.5 on a 4.0 scale, they will be accepted into the university.
- B. All who have been recently accepted into the university have graduated high school or have a GED.
- C. If an applicant has taken the SAT or ACT, they will be accepted into the university.
- D. Only applicants who have submitted a personal statement will be accepted into the university.

Statement: Music education in schools is important for a child's development.

### **Assumptions:**

- I. Music education is only valuable for children who have a natural talent or interest in music.
- II. Music education in schools is typically underfunded and receives less support than other subjects.
- III. Music education has no impact on a child's academic performance.

### Which of the following assumptions aligns with the statement?

- A. Assumption I only
- B. Assumption II only
- C. Both assumptions I and III
- D. None of the assumptions align with the statement
- In each of the following questions, two statements numbered I and II are given. There may be a cause-and-effect relationship between the two statements. These two statements may be the effect of the same cause or independent causes. These statements may be independent causes without having any relationship.

#### Statements:

- 1. The number of goals scored by a soccer team has increased this season.
- II. The team has hired a new coach with a more aggressive playing style.

### Which of the following must be true?

- A. Statement I is the cause and statement II is its effect.
- B. Statement II is the cause and statement I is its effect.
- C. Statements I and II are either independent causes or independent effects.
- D. Both statements I and II are effects of some common cause.

Nathan is the owner of a small e-commerce business and is looking to hire an email marketing specialist. He is searching for someone with a bachelor's degree in marketing, a minimum of 2 years of experience in email marketing, experience in running successful email campaigns, familiarity with email marketing software and tools, and strong analytical skills. He has four candidates that meet these qualifications.

Alex - Has a bachelor's degree in marketing and 3 years of experience in email marketing for a retail company. Has experience in running successful email campaigns, and is proficient in various email marketing software and tools. Has strong analytical skills.

Britney - Has a degree in advertising and 2 years of experience in email marketing for a technology company. Has experience in running successful email campaigns, and is proficient in various email marketing software and tools. Has strong analytical skills.

Charlie - Has a degree in business and 3 years of experience in email marketing for a travel company. Has experience in running successful email campaigns, and is proficient in various email marketing software and tools. Has strong analytical skills.

Drake - Has a degree in marketing and 1 year of experience in email marketing for a startup. Has experience in running successful email campaigns, and is proficient in various email marketing software and tools. Has strong analytical skills.

### Which candidate should Nathan consider for the email marketing specialist position?

- A. Either Alex or Charlie
- B. Either Britney or Charlie
- C. Either Alex or Drake
- D. Alex
- Three siblings Amberlyn, Potter, and Ceasar were suspected of stealing the cookies in the Jar. Their mom knows that two of them are guilty. When faced with the punishment of being grounded from playing outside, they made the following statements:

Amberlyn: "I am guilty."

Potter: "Ceasar is not guilty."

Ceasar: "Amberlyn is not guilty."

However, only 1 of them is telling the truth and the other 2 are lying.

# Which of the following statements must be true?

- A. Caesar is not guilty but telling the truth.
- B. Amberlyn is not innocent but not lying.
- C. Potter is innocent and telling the truth.
- D. Amberlyn is innocent and is telling the truth.

In each of the following questions, two statements numbered I and II are given. There may be a cause-and-effect relationship between the two statements. These two statements may be the effect of the same cause or independent causes. These statements may be independent causes without having any relationship.

Statement I: The number of customers visiting a local grocery store has decreased significantly in the last month. Statement II: The management of the grocery store has decided to reduce the store's opening hours.

# Which of the following must be true?

- A. Statement I is the cause and statement II is its effect.
- B. Statement II is the cause and statement I is its effect.
- C. Both statements I and II are either independent causes or independent effects.
- D. Both statements I and II are effects of some common causes.

18

A company is facing a shortage of raw materials due to supply chain disruptions caused by the pandemic.

### **Courses of Action:**

- I. Cut down on production to conserve the remaining raw materials until the supply chain returns to normal.
- II. Increase prices of the finished products to compensate for the increased cost of raw materials.

# Which of the following courses of action logically follows?

- A. I only
- B. II only
- C. Both I and II
- D. Neither I nor II
- In order to become a Valorant Esports Reporter, candidates must meet several conditions. Candidates must meet at least one of the following requirements to be able to talk the on-camera test, which is a test they needed to pass to become a Valorant Esports reporter: degree in journalism, be fluent in English and at least one other language, and have at least two years of experience in esports reporting,. Whenever a reporter covers a Valorant Esports match, they will only receive payment if their article or segment is published by an accredited news organisation. However, if the match is cancelled or postponed, the reporter will not receive payment for their coverage.

### Which of the following statements is true?

- A. If a reporter passes the written and on-camera test, they will be guaranteed payment for covering a Valorant Esports match.
- B. If a reporter covers a Valorant Esports match, they will receive payment even if their article or segment is not published by an accredited news organisation.
- C. If a reporter has a degree in journalism and is fluent in English, they will be allowed to take the on-camera test.
- D. If a reporter does not have at least two years of experience in esports reporting, they will not be allowed to take the on-camera test.

You must accept the given statements as true, even if they appear to contradict commonly known facts. Read all of the conclusions and decide which one logically follows from the given statements.

#### Statements:

- No card is not a brick.
- Some marbles are bricks.
- Some beads are marbles.

#### Conclusions:

- 1. Some bricks are cards.
- 2. All marbles are cards.

# Which of the following logically follows?

- A. Only Conclusion 1 follows.
- B. Only Conclusion 2 follows.
- C. Both Conclusion 1 and 2 follow.
- D. Neither Conclusion 1 nor Conclusion 2 follows.



Durant and Antetekoumpo are basketball players. All basketball players are fast. Most of them are 6 feet tall. Both Durant and Antetekoumpo run fast.

#### If the information above is true, whose reasoning is correct?

Edwards: "If you are 6 feet tall, there's no doubt that you are a basketball player."

Morant: "If someone can run fast, then they must also be 6 feet tall."

- A. Edwards only
- B. Morant only
- C. Both Edwards and Morant
- D. Neither Edwards nor Morant
- These are Carly, Rae, and Jepsen. Evidence shows that two of them are guilty of the incident. When facing trial, they each made the following statements:

Carly: I am certain that Rae is guilty
Rae: Trust me, Jepsen is not guilty
Jepsen: I'm honestly not guilty

However, only one of the three is telling the truth. The other two are lying. Which of the following statements must be true?

- A. Carly is not guilty and is not lying.
- B. Carly is guilty but is telling the truth.
- C. Rae is not guilty and is telling the truth.
- D. Rae is not lying and is not guilty

### **Statements:**

- I. The government has now recently implemented higher tax rates for the upper class to pay annually.
- II. Citizens are now required to have at least 10 to 12 hours of training in financial management.

# Which of the following options is most likely true?

- A. Statement I is the cause and statement II is its effect
- B. Statement II is the cause and statement I is its effect
- C. Both statements I and II are independent causes
- D. Both statements I and II are effects of independent causes

24

Some trains are roads. No road is a jungle. All flowers are jungles.

#### Conclusions:

- I. Some trains are flowers.
- II. Some trains are jungles.
- III. Some flowers are trains.
- IV. Some jungles are flowers.

# Which of the following conditions follows?

- A. None follows
- B. Only II follows
- C. Only III follows
- D. Only IV follows

25

Wakandans are known to be advanced in technology. Some Wakandans graduated with an engineering course. Some Wakandans wake up early in the morning. Wakandans are brilliant and smart citizens.

### If the information in the box is true, whose reasoning is correct?

T'Challa: "Some Wakandans wake up early, and all of them are smart"

M'baku: "If someone graduated in an engineering course, then they must be a Wakandan."

- A. T'Challa only
- B. M'baku only
- C. Both T'Challa and M'Baku
- D. Neither T'Challa nor M'Baku

26	If a country's football club has won two matches, then they will advance in the FIFA World Cup.
	If the above statement is true, which of the following must also be true?
	<ul> <li>A. All football clubs that advanced in the FIFA World Cup have won two matches</li> <li>B. A football club that has not advanced in the FIFA World Cup has not won two matches</li> <li>C. Only those who won two matches will advance in the FIFA World Cup</li> <li>D. A football club has not won two matches, thus they did not advance in the FIFA World Cup</li> </ul>
27	On weekends, Mr Jimenez spends numerous hours working around his vegetable and flower gardens. Mrs Jimenez uses her spare time with literature and classical music. Mr and Mrs Jimenez are both enthusiastic cooks.
	Which of the following must be true?
	<ul> <li>A. Mr Jimenez enjoys planting and growing vegetables.</li> <li>B. Mr Jimenez does not like classical music.</li> <li>C. Mrs Jimenez cooks the vegetables that Mr Jimenez grows.</li> <li>D. Mrs Jimenez enjoys reading nineteenth-century novels.</li> </ul>
28	Every time a cat meows, it wants food. If the cat does not meow, what can we say?
	<ul><li>A. The cat is not hungry.</li><li>B. The cat is asleep.</li><li>C. The cat is hungry.</li><li>D. We cannot be sure whether the cat is hungry or not.</li></ul>
29	All red apples from Mr. Green's farm are sweet. If an apple from Mr. Green's farm is not sweet, <b>what can we conclude?</b>
	<ul><li>A. The apple is red.</li><li>B. The apple is not red.</li><li>C. The apple is sour.</li><li>D. Mr. Green's farm only grows sweet apples.</li></ul>
30	Whenever Jenny studies hard, she gets an A grade. Jenny didn't get an A grade on her maths test.
	A. Jenny studied hard. B. Jenny didn't study hard. C. Jenny didn't take the maths test. D. Jenny always gets an A grade when she studies.

31	
	Some cakes are corns. Some corns are apples.
	Conclusions:
	I. Some apples are cakes
	II. No cake is an apple.
	If the information in the box is true, which of the following conclusions follows?
	A. Conclusion I only
	B. Conclusion II only
	C. Both conclusions I and II
	D. Neither conclusion I nor conclusion II
32	
	Statement: The main goal of schools is to produce educated and skilled professionals.
	Assumptions:
	<ol> <li>Parents should enrol their children in prestigious universities if they want their kids to become professionals.</li> </ol>
	II. A school is the sole place where students can learn lessons that they can use for their professional growth.
	Which of the following assumptions aligns with the statement?
	A. Assumption I only
	B. Assumption II only
	C. Both assumptions I and II
	D. Neither assumption I nor II
33	
	Some pans are sticks. No stick is a mop. All mops are dogs.
	Conclusions:
	I. Some dogs are sticks.
	II. No dog is a stick.
	III. Some pans are mops
	Which of the following conclusions follow?
	A Lonly
	A. Lonly
	B. II only C. III only
	D. No conclusion follows

Training, which includes the teaching of communication commands, is an extremely crucial aspect of a dog's upbringing. This ensures that dogs will perform and behave appropriately.

#### **Assumptions:**

- I. Dogs are most likely taught hand signals and verbal orders during training sessions.
- II. Dog training can be very expensive, especially if the dog has behavioural problems.

### Which of the following assumptions aligns with the statement?

- A. Assumption I only
- B. Assumption II only
- C. Both assumptions I and II
- D. Neither assumption I nor II

35

Farmers should be compensated by the government for the costs they incurred for their crops if they are damaged by typhoons, floods, and other natural catastrophes.

### **Assumptions:**

- I. The government is likely to run out of funds whenever there are natural disasters.
- II. The farmers will gain their forecasted profits if the government will compensate them for their losses whenever natural disasters hit.

### Which of the following assumptions are sound enough to align with the given statement?

- A. Assumption I only
- B. Assumption II only
- C. Both assumptions I and II
- D. Neither assumption I nor II

Ashley owns five different businesses, and she is now looking for a brand model who can represent her brands. She is looking for someone who possesses the following: black-haired, fair-skinned, tall enough to be a runway model, has a charming smile, has been a model for over 4 years, and has an instagram account with over 2,000 followers. Currently, there are five people who are applying for the role.

**Aang** - black-haired, fair-skinned, stands at 5 feet, has a charming smile, has been modelling for over 4 years, and has 2000 followers on instagram.

**Sokka** - black-haired, fair-skinned, stands at 5 feet and 9 inches, has modelled longer than all applicants, and has 10,000 instagram followers.

**Katara** - black-haired, fair-skinned, 5 feet and 8 inches, has a charming smile, has been a model for 5 years, and has an instagram account with 3,000 followers.

**Toph** - black-haired, fair-skinned, stands taller than Aang, has a charming smile, has been a model for over 4 years, and has an instagram account with 5,000 followers.

**Zuko** - has pitch black hair, has light complexion, stands at 5 feet and 9 inches, has a charming smile, has been a model for over 4 years, and has a social media following of more than 6000.

# How many among the models have met Ashley's qualifications?

- A. 1 model only
- B. 2 models
- C. 3 models
- D. 4 models

37	Only if a child cleans their room will they be allowed to go to the park.
	Which one of these statements cannot be true?
	<ul> <li>A. If a child is at the park, they must have cleaned their room.</li> <li>B. If a child has not cleaned their room, they can still go to the park.</li> <li>C. If a child has cleaned their room, they are definitely at the park.</li> <li>D. If a child is not at the park, they may not have cleaned their room.</li> </ul>
38	Most teachers are males. Some males are parents.
	Conclusions:
	<ul><li>I. No teacher is a parent.</li><li>II. Some teachers are parents.</li></ul>
	Which of the following conclusions follow/s?
	A. Conclusion I only B. Conclusion II only C. Conclusions I and II
	D. No conclusions follow
39	
	Only children who are over 5 years of age will be allowed to enrol for first grade.
	If the information in the box is true, which of the following must also be true?
	<ul> <li>A. If Samantha would not be allowed to enrol for first grade, then she is not over 5 years of age.</li> <li>B. Kiara is turning 5 on the day of the enrolment, so she is allowed to enrol for first grade.</li> <li>C. Brian is 5 years old, so he can definitely enrol for first grade.</li> </ul>
	D. Since Mark is still 4 years old, he can never enrol for first grade.
40	"To always be informed, I listen to the radio news at 9:00 PM", a candidate informs the interview committee.
	Conclusions:  I. The candidate does not read newspapers.
	II. Recent news is broadcast only on the radio.
	Which of the following conclusions follow/s?
	A. Conclusion I only
	B. Conclusion II only C. Both conclusions I and II
	D. Neither conclusion I nor II