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LOGIC · LOGICAL REASONING

## 04. Argument Evaluation & Ethics

Official PMDC Solved Past Paper Topical Booklet · High-Yield Examination Series

🕒 24 Solved Questions

📅 2022 to 2025 Archive

🏥 Boards: BUMHS, DUHS, FMDC, KMU, NUMS, PMDC

📋 Weightage: 3% of MDCAT (6 MCQs)

**Curated by Ibrahim for fellow bees.** Every question in this chapter has been verified against official UHS, NUMS, SZABMU, DUHS, and KMU answer keys. Propolis cognitive autopsies are provided at the end of this booklet to explain core concepts and break down common distractor traps.

**OFFICIAL SOLVED EDITION****Q1.**

BUMHS 2025

Which of the following represents an **environmental factor** that could lead to incidents?

- (A) Lack of experience
- (B) Machine malfunctioning
- (C) A storm leading to power disruptions
- (D) A design flaw

**Q2.**

SZABMU 2025

What is the primary difference between a **hypothesis** and a **theory**?

- (A) A hypothesis is a proven fact, while a theory is unproven data.
- (B) A hypothesis is a specific prediction, while a theory is a broad explanation.
- (C) A hypothesis is a qualitative statement, while a theory is a quantitative statement.
- (D) A hypothesis is a tentative explanation, while a theory is a well-established explanation.

**Q3.**

SZABMU 2025

A hiker climbed to a higher altitude, where he felt the air pressure was lower as compared to the lower altitude. What is the likely effect?

- (A) The hiker felt more energetic.
- (B) The hiker felt no difficulty in breathing.
- (C) The hiker might experience altitude sickness.
- (D) The hiker felt healthier and fresh.

**Q4.**

KMU 2025

A mobile company is deciding whether to collect personal user data for improving advertisements. Which of the following is a **moral argument** against collecting the data?

- (A) Users may lose trust in the company, which could hurt profits.
- (B) It is wrong to collect data without users' clear and informed consent.
- (C) Competitors already collect more data, and we need to stay competitive.
- (D) More data means more accurate advertising, which boosts sales.

**Q5.**

NUMS 2025

What is the primary difference between **hypothesis** and a **theory**?

- (A) A hypothesis is a proven fact, while a theory is an unproven data
- (B) A hypothesis is a specific prediction, while a theory is a broad explanation
- (C) A hypothesis is a qualitative statement, while a theory is a quantitative statement
- (D) A hypothesis is a tentative explanation, while a theory is a well-substantiated explanation

**Q6.**

NUMS 2025

A hiker climbed to a higher altitude, where he felt the air pressure was lower as compared to the lower altitude. What is the likely effect?

- (A) The hiker felt more energetic.
- (B) The hiker felt no difficulty in breathing.
- (C) The hiker might experience altitude sickness.
- (D) The hiker felt healthier and fresh.

**Q7.**

BUMHS 2025

Which of the following represents an **environmental factor** that could lead to incidents?

- (A) Lack of experience
- (B) Machine malfunctioning
- (C) A storm leading to power disruptions
- (D) A design flaw

**Q8.**

KMU 2025

A mobile company is deciding whether to collect personal user data for improving advertisement. Which of the following is a **moral argument** against collecting the data?

- (A) Users may lose trust in the company, which could hurt profits.
- (B) It is wrong to collect data without users' clear and informed consent.
- (C) Competitors already collect more data, and we need to stay competitive.
- (D) More data means more accurate advertising, which boosts sales.

**Q9.**

SZABMU 2025

What is the primary difference between hypothesis and a theory?

- (A) A hypothesis is a proven fact, while a theory is an unproven data
- (B) A hypothesis is a specific prediction, while a theory is a broad explanation
- (C) A hypothesis is a qualitative statement, while a theory is a quantitative statement
- (D) A hypothesis is a tentative explanation, while a theory is a well-substantiated explanation

**Q10.**

SZABMU 2025

A hiker climbed to a higher altitude, where he felt the air pressure was lower as compared to the lower altitude. What is the likely effect?

- (A) The hiker felt more energetic.
- (B) The hiker felt no difficulty in breathing.
- (C) The hiker might experience altitude sickness.
- (D) The hiker felt healthier and fresh.

**Q11.**

FMDC 2024

The Incandescent brand fruit juice claims to be the most original fruit juice available on the market today. To prove this claim, the company called 10 people from the market and asked them about their thoughts on juices. Nine of them stated that they drink Incandescent brand fruit juices regularly because it is closest to the taste of real fruits.

Which of the following would **weaken** this argument?

- (A) The Incandescent brand fruit juice is highly addictive.
- (B) The 10 people were closely related to top executives of the company.
- (C) The 10 people were selected at random.
- (D) Most people prefer cola drinks to fruit juices.

**Q12.**

PMDC 2024

Read the passage:

*"Pakistan is rich in wildlife and culture. It is home to many sorts of wildlife, from the Ibex to the Indus River Dolphin; and people from most countries in the world have made their home here."*

**Statements:**

- i. Pakistan is a rich country.
- ii. People from all nationalities of the world live in Pakistan.
- iii. Pakistan is home to at least one dolphin species.

- (A) Only iii statement is correct
- (B) Only i and ii are correct
- (C) Only i and iii are correct
- (D) Only ii and iii are correct

**Q13.**

FMDC 2023

Read the passage:

*"Pakistan is rich in wildlife and culture. It is home to many sorts of wildlife, from the Ibex to the Indus River Dolphin; and people from most countries in the world have made their home here."*

**Statements:**

- i. Pakistan is a rich country.
- ii. People from all nationalities live in Pakistan.
- iii. Pakistan is home to at least one dolphin species.

- (A) Only iii statement is correct
- (B) Only i and ii are correct
- (C) Only i and iii are correct
- (D) Only ii and iii are correct

**Q14.**

KMU 2023

Read the paragraph carefully:

*"Over the past century the businessman has helped build civilization's great cities, provided people with luxuries and lifted his fellow citizens to a certain standard of living. Further seeding the industrial revolution around the world."*

The passage best supports the statement that the businessman:

- (A) Is accountable to the society
- (B) Provides seeds to agricultural sector
- (C) Is the beneficiary of the industrial revolution
- (D) Has contributed to the growth of civilisation

**Q15.**

KMU 2023

**Statement:** Does Pakistan need so many plans for development?

**Arguments:**

- I. Yes. Nothing can be achieved without proper planning.
- II. No. Too much time, money and energy is wasted on planning.

- (A) Only I is true
- (B) Only II is true
- (C) Either I or II is true
- (D) Neither I nor II is true

**Q16.**

PMDC 2023

Read the passage: *"Pakistan is rich in wildlife and culture..."*

Which statements are correct?

- i. Pakistan is a rich country.
- ii. People from all nationalities of the world live in Pakistan.
- iii. Pakistan is home to at least one dolphin species.

- (A) Only iii statement is correct
- (B) Only i and ii are correct
- (C) Only i and iii are correct
- (D) Only ii and iii are correct

**Q17.**

SZABMU 2023

Passages on Pakistan wildlife: Statement III states Pakistan is home to at least one dolphin species. Is this supported?

- (A) Only III is correct
- (B) Only I and II are correct
- (C) Only I and III are correct
- (D) Only II and III are correct

**Q18.**

SZABMU 2022

Read the passage:

*"The early Medieval period (642–1219 CE) witnessed the spread of Islam in regions which are now known as Pakistan. During this period Sufi missionaries played a pivotal role in converting a majority of the regional population to Islam."*

**STATEMENTS:**

- I. Islam was spread in the Pakistan region during the early Medieval period.
- II. Sufi missionaries converted a lot of people to Islam during this time.
- III. It can be said that the Sufis were responsible for Pakistan ultimately becoming an Islamic country.

- (A) Only I is correct.
- (B) Only I and II are correct.
- (C) I, II and III all are correct.
- (D) Only I and III are correct.

**Q19.**

KMU 2022

Read the passage:

*"The water resources of our country are very much underutilized. The main reason behind this is the lack of capital and technology. A large portion of our water resources is wasted due to floods..."*

**Statement:** The country does not have enough funds to develop water resources.

- (A) Definitely true
- (B) Probably true
- (C) Data is inadequate
- (D) Probably false

**Q20.**

KMU 2022

Based on the passage above:

**Statement:** Occurrence of floods adds to the water resources.

- (A) Definitely true
- (B) Probably true
- (C) Probably false
- (D) Definitely false

**Q21.**

DUHS 2022

Read the statement and choose the correct conclusion:

*"Although most of the lucrative jobs in Pakistan require a college degree, many new jobs require knowledge other than that gained in college or university. For workers in those jobs, good basic skills in reading, communication, and mathematics play an important role in getting a job & developing a career."*

- (A) Extra knowledge is an added benefit for career development.
- (B) People should train their children for technical work.
- (C) Skills in reading, communication & mathematics play an important role in developing a successful career.
- (D) All colleges & universities are worthless.

**Q22.**

DUHS 2022

Read the passage and choose the logical deduction:

*"After seven years of suggestions from the environmental department, the Sindh legislation has finally passed an antipollution ordinance. From a reading of language, the legislation promises to be one of the most effective bills in the history of the province."*

- (A) Pollution is not now a problem in the country.
- (B) To reduce pollution, the legislation must now be enforced.
- (C) The pollution problem will be eliminated in the country.
- (D) The pollution problem will be eliminated in the process.

**Q23.**

DUHS 2022

Scientists recently published that influenza spreads around the world more efficiently in the modern era due to commercial air travel. Flu symptoms are severe enough that the sick would likely cancel air travel, but an infected person can travel across the globe before the first signs appear. Further, if symptoms develop on a plane, coughing spreads the virus easily in an enclosed environment.

Which of the following would best **minimize** the role air travel plays in spreading influenza during a pandemic?

- (A) Refusing to allow children, the elderly, or others who are especially vulnerable to travel by air.
- (B) Requiring all air travelers to wash their hands before boarding a plane.
- (C) Requiring air travelers to receive flu vaccinations far enough in advance of the trip to provide protection.
- (D) Conducting medical examinations during the boarding process and prohibiting passengers with flu symptoms from flying.

**Q24.**

UHS 2022

Read the passage and choose the correct conclusion based **ONLY** on the provided text:

*"Queen Elizabeth II's Platinum Jubilee, celebrating her 70 years on the British throne, was above all a tribute to one of history's great acts of constancy. Her reign spanned virtually the entire post-World War II era, making her a witness to cultural upheavals from the Beatles to Brexit."*

**STATEMENTS:**

I. There has been another queen of the British throne named Elizabeth before her.

II. Brexit is a normal occurrence.

III. Elizabeth was Queen of the British during World War II.

- (A) I, II and III; all are correct
- (B) Only III is correct
- (C) Only I is correct
- (D) Only I and III are correct

RAPID 5–COLUMN ANSWER KEY

Official PMDC verified answer keys for O4. Argument Evaluation & Ethics.

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| Q# | KEY | BOARD       |
|----|-----|-------------|
| 1  | C   | BUMHS 2025  |
| 2  | D   | SZABMU 2025 |
| 3  | C   | SZABMU 2025 |
| 4  | B   | KMU 2025    |
| 5  | D   | NUMS 2025   |

| Q# | KEY | BOARD       |
|----|-----|-------------|
| 6  | C   | NUMS 2025   |
| 7  | C   | BUMHS 2025  |
| 8  | B   | KMU 2025    |
| 9  | D   | SZABMU 2025 |
| 10 | C   | SZABMU 2025 |

| Q# | KEY | BOARD     |
|----|-----|-----------|
| 11 | B   | FMDC 2024 |
| 12 | A   | PMDC 2024 |
| 13 | A   | FMDC 2023 |
| 14 | D   | KMU 2023  |
| 15 | A   | KMU 2023  |

| Q# | KEY | BOARD       |
|----|-----|-------------|
| 16 | A   | PMDC 2023   |
| 17 | C   | SZABMU 2023 |
| 18 | B   | SZABMU 2022 |
| 19 | A   | KMU 2022    |
| 20 | D   | KMU 2022    |

| Q# | KEY | BOARD     |
|----|-----|-----------|
| 21 | C   | DUHS 2022 |
| 22 | B   | DUHS 2022 |
| 23 | D   | DUHS 2022 |
| 24 | C   | UHS 2022  |

| TOTAL MCQS | CORRECT | INCORRECT | BLANK | ACCURACY |
|------------|---------|-----------|-------|----------|
| 24         | -----   | -----     | ----- | -----    |
|            |         |           |       | %        |

Scan the booklet QR code to enter answers in BeambePrep Grind Mode for automated error autopsies.

# PROPOLIS COGNITIVE ERROR AUTOPSIES

Step-by-step conceptual derivations, formula working, and distractor autopsies for every question.

## Question #1 Key: (C)

BUMHS 2025

Which of the following represents an environmental factor that could lead to incidents?

### CORE CONCEPT AND DERIVATION

Workplace Safety & Hazard Classification.

Formula: N/A

**Solution:** Environmental factors are external natural conditions outside direct human or mechanical operation. A weather storm is a classic environmental hazard.

**Why other options are incorrect:**

- **Option A:** Represents a human factor.
- **Option B:** Represents a mechanical/equipment factor.
- **Option D:** Represents an engineering/design factor.

## Question #2 Key: (D)

SZABMU 2025

What is the primary difference between a hypothesis and a theory?

### CORE CONCEPT AND DERIVATION

Scientific Epistemology.

Formula: N/A

**Solution:** A hypothesis is a tentative, testable proposition subject to experimentation. A scientific theory is a thoroughly tested, well-substantiated explanation supported by vast evidence.

**Why other options are incorrect:**

- **Option A:** Inaccurately calls a hypothesis a 'proven fact'.
- **Options B and C:** Incorrectly classify theories and hypotheses based on scope or data format rather than degree of empirical validation.

## Question #3 Key: (C)

SZABMU 2025

A hiker climbed to a higher altitude, where he felt the air pressure was lower as compared to the lower altitude...

### CORE CONCEPT AND DERIVATION

Physiology – Environmental Hypoxia.

Formula: N/A

**Solution:** Reduced atmospheric pressure at high altitude lowers oxygen partial pressure, leading to physiological hypoxia and acute altitude sickness.

**Why other options are incorrect:**

- **Options A, B, and D:** Contradict basic physiological responses to high-altitude hypoxia.

## Question #4 Key: (B)

KMU 2025

A mobile company is deciding whether to collect personal user data for improving advertisements. Which of the ...

### CORE CONCEPT AND DERIVATION

Applied Ethics vs. Business Pragmatism.

Formula: N/A

**Solution:** A moral argument is anchored in principles of right, wrong, and personal autonomy (consent), irrespective of practical profits.

**Why other options are incorrect:**

- **Options A, C, and D:** Are commercial, financial, or competitive arguments, not moral ones.

## Question #5 Key: (D)

NUMS 2025

What is the primary difference between hypothesis and a theory?

### CORE CONCEPT AND DERIVATION

Scientific Method Definitions.

Formula: N/A

**Solution:** A hypothesis is a proposed preliminary explanation; a theory is an extensively tested body of empirical knowledge.

**Why other options are incorrect:**

- **Option A:** Hypotheses are never unalterable proven facts.

**Question #6** **Key: (C)**

NUMS 2025

A hiker climbed to a higher altitude, where he felt the air pressure was lower as compared to the lower altitude...

**CORE CONCEPT AND DERIVATION**

Environmental Physiology.

Formula: N/A

**Solution:** Lower atmospheric pressure reduces oxygen intake, resulting in altitude sickness.

**Why other options are incorrect:**

- **Option A:** Oxygen deprivation lowers energy levels.

**Question #7** **Key: (C)**

BUMHS 2025

Which of the following represents an environmental factor that could lead to incidents?

**CORE CONCEPT AND DERIVATION**

Environmental Hazard Identification.

Formula: N/A

**Solution:** Weather conditions such as severe storms are external environmental phenomena.

**Why other options are incorrect:**

- **Options A, B, and D:** Represent human error, mechanical breakdown, or engineering design issues.

**Question #8** **Key: (B)**

KMU 2025

A mobile company is deciding whether to collect personal user data for improving advertisement. Which of the f...

**CORE CONCEPT AND DERIVATION**

Deontological Ethics.

Formula: N/A

**Solution:** Argument B focuses on the moral obligation of user consent.

**Why other options are incorrect:**

- **Options A, C, and D:** Are commercial/profit-driven statements.

**Question #9** **Key: (D)**

SZABMU 2025

What is the primary difference between hypothesis and a theory?

**CORE CONCEPT AND DERIVATION**

Epistemological Definitions.

Formula: N/A

**Solution:** A hypothesis is tentative; a theory is well-substantiated.

**Why other options are incorrect:**

- **Option A:** Hypotheses are never unalterable facts.

**Question #10** **Key: (C)**

SZABMU 2025

A hiker climbed to a higher altitude, where he felt the air pressure was lower as compared to the lower altitude...

**CORE CONCEPT AND DERIVATION**

High Altitude Hypoxia.

Formula: N/A

**Solution:** Reduced oxygen pressure causes altitude sickness.

**Why other options are incorrect:**

- **Option A:** Energetic feelings contradict hypoxia.

**Question #11** **Key: (B)**

FMDC 2024

The Incandescent brand fruit juice claims to be the most original fruit juice available on the market today. T...

**CORE CONCEPT AND DERIVATION**

Critical Reasoning – Selection Bias.

Formula: N/A

**Solution:** Surveying individuals affiliated with company executives introduces severe conflict of interest and bias, destroying the statistical validity of the study.

**Why other options are incorrect:**

- **Option C:** Random selection actually strengthens survey credibility.

**Question #12** Key: (A)

PMDC 2024

Read the passage: "Pakistan is rich in wildlife and culture. It is home to many sorts of wildlife, from the Ib..."

**CORE CONCEPT AND DERIVATION**

Textual Fidelity Comprehension.

Formula: N/A

Solution:

- Statement i is false (text says rich in *wildlife/culture*, not wealth).
- Statement ii is false (text says *most countries*, not all).
- Statement iii is explicitly true (Indus River Dolphin).

Why other options are incorrect:

- Options B, C, and D: Accept false extrapolations.

**Question #13** Key: (A)

FMDC 2023

Read the passage: "Pakistan is rich in wildlife and culture. It is home to many sorts of wildlife, from the Ib..."

**CORE CONCEPT AND DERIVATION**

Literal Reading Inferences.

Formula: N/A

**Solution:** Only Statement iii is explicitly corroborated by the passage.

Why other options are incorrect:

- Options B, C, and D: Contain false generalizations.

**Question #14** Key: (D)

KMU 2023

Read the paragraph carefully: "Over the past century the businessman has helped build civilization's great cit..."

**CORE CONCEPT AND DERIVATION**

Paragraph Gist Identification.

Formula: N/A

**Solution:** Building cities and raising living standards directly summarize contributing to civilizational growth.

Why other options are incorrect:

- **Option B:** Misinterprets the metaphor 'seeding the industrial revolution' literally.

**Question #15** Key: (A)

KMU 2023

Statement: Does Pakistan need so many plans for development?  
Arguments: I. Yes. Nothing can be achieved withou...

**CORE CONCEPT AND DERIVATION**

Public Planning Argumentation.

Formula: N/A

**Solution:** Structured governance requires strategic planning to allocate resources effectively.

Why other options are incorrect:

- **Option B:** Dismissing planning entirely leads to systemic governance failure.

**Question #16** Key: (A)

PMDC 2023

Read the passage: "Pakistan is rich in wildlife and culture..." Which statements are correct? i. Pakistan is a...

**CORE CONCEPT AND DERIVATION**

Textual Analysis.

Formula: N/A

**Solution:** Statement iii is the only fact supported directly by the text.

Why other options are incorrect:

- Options B, C, and D: Introduce unsupported claims.

**Question #17** Key: (C)

SZABMU 2023

Passages on Pakistan wildlife: Statement III states Pakistan is home to at least one dolphin species. Is this ...

**CORE CONCEPT AND DERIVATION**

Text Comprehension Key Standards.

Formula: N/A

**Solution:** Per SZABMU examination key standards, statements I and III are accepted as supported.

Why other options are incorrect:

- **Option B:** Includes false statement II.

**Question #18** Key: (B)

SZABMU 2022

Read the passage: "The early Medieval period (642–1219 CE) witnessed the spread of Islam in regions which are ..."

**CORE CONCEPT AND DERIVATION**

Textual Inferences.

Formula: N/A

**Solution:** Statements I and II are explicitly confirmed by the text. Statement III makes an unstated political generalization.

**Why other options are incorrect:**

- **Option C:** Includes unverified Statement III.

**Question #19** Key: (A)

KMU 2022

Read the passage: "The water resources of our country are very much underutilized. The main reason behind this..."

**CORE CONCEPT AND DERIVATION**

Explicit Text Verification.

Formula: N/A

**Solution:** 'Lack of capital' directly confirms that the country lacks financial funds.

**Why other options are incorrect:**

- **Option C:** Data is explicitly provided in the text.

**Question #20** Key: (D)

KMU 2022

Based on the passage above; Statement: Occurrence of floods adds to the water resources.

**CORE CONCEPT AND DERIVATION**

Direct Text Contradiction.

Formula: N/A

**Solution:** The passage states floods cause water resources to be wasted, making the statement definitely false.

**Why other options are incorrect:**

- **Option A:** Directly contradicts the text.

**Question #21** Key: (C)

DUHS 2022

Read the statement and choose the correct conclusion: "Although most of the lucrative jobs in Pakistan require..."

**CORE CONCEPT AND DERIVATION**

Reading Comprehension Deductions.

Formula: N/A

**Solution:** Option C restates the exact explicit conclusion presented in the final sentence of the passage.

**Why other options are incorrect:**

- **Option D:** Makes an extreme, false generalization not supported by the passage.

**Question #22** Key: (B)

DUHS 2022

Read the passage and choose the logical deduction: "After seven years of suggestions from the environmental de..."

**CORE CONCEPT AND DERIVATION**

Policy Execution Deductions.

Formula: N/A

**Solution:** Passing a bill into law is a legislative step; for the bill to realize its promise of reducing pollution, active executive enforcement is required.

**Why other options are incorrect:**

- **Options C and D:** Assume passing a bill automatically eliminates pollution without implementation.

**Question #23** Key: (D)

DUHS 2022

Scientists recently published that influenza spreads around the world more efficiently in the modern era due t...

**CORE CONCEPT AND DERIVATION**

Disease Vector Mitigation.

Formula: N/A

**Solution:** Screening passengers during boarding and isolating symptomatic individuals prevents symptomatic transmission in enclosed aircraft environments.

**Why other options are incorrect:**

- **Option B:** Hand washing alone does not block aerosol airborne transmission from coughing.

**Question #24** **Key: (C)**

UHS 2022

Read the passage and choose the correct conclusion based ONLY on the provided text: "Queen Elizabeth II's Plat..."

**CORE CONCEPT AND DERIVATION**

Textual Proof Analysis.

Formula: N/A

Solution:

- Statement I is proven: The regnal numeral 'II' in Elizabeth II guarantees a Queen Elizabeth I preceded her.
- Statement II is false: Brexit is called a 'cultural upheaval', not a normal event.
- Statement III is false: Text states her reign covered the post-World War II era.

Why other options are incorrect:

- Options A, B, and D: Accept false claims III or II.