

**LOGIC · LOGICAL REASONING**

01. Identifying Assumptions

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

© 4 Solved Questions

📅 2022 to 2025 Archive

🏛 Boards: BUMHS, DUHS, KMU

📄 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

Prohibiting smoking in public areas will reduce the occurrence of lung disease.

What **assumption** is present here?

- (A) Banning smoking has no impact on lung disease rates.
- (B) Smoking in public places plays a major role in causing lung disease.
- (C) Smoking is the sole cause of lung disease.
- (D) Hence all people live in public areas therefore, banning smoking will eliminate lung disease.

Q2.

BUMHS 2025

Prohibiting smoking in public areas will reduce the occurrence of lung disease.

What **assumption** is present here?

- (A) Smoking in public places plays a major role in causing lung disease.
- (B) Banning smoking has no impact on lung disease rates.
- (C) Smoking is the sole cause of lung disease.
- (D) Hence all people live in public areas therefore, banning smoking will eliminate lung disease.

Q3.

KMU 2023

Methyl tetrachloride (MTC) is a chemical found in some pesticides, glues, and sealants. Exposure to MTC can cause people to develop asthma. In order to halve the nation's asthma rate, the government plans to ban all products containing MTC.

The government's plan relies on which **assumption**?

- (A) Exposure to MTC is responsible for no less than half of the nation's asthma cases.
- (B) Products containing MTC are not necessary to the prosperity of the country's economy.
- (C) Asthma has reached epidemic proportions.
- (D) MTC products are helpful for asthma.

Q4.

DUHS 2022

After the declaration of company election, the elected chairperson gave his message to the workers that: "*The responsibility of the management is to serve and not to dominate workers.*"

Which of the following is one basic **assumption** underlying the chairperson's statement?

- (A) The management is capable of dominating the workers.
- (B) One must be decisive when facing company union for the first time.
- (C) Domination over workers by the management is a virtue.
- (D) The management, preceding the company administration had been impossible.

RAPID 5-COLUMN ANSWER KEY

Official PMDC verified answer keys for 01. Identifying Assumptions.

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Q#	KEY	BOARD	Q#	KEY	BOARD	Q#	KEY	BOARD	Q#	KEY	BOARD	Q#	KEY	BOARD
1	B	BUMHS 2025	2	A	BUMHS 2025	3	A	KMU 2023	4	A	DUHS 2022			

TOTAL MCQS
4

CORRECT

INCORRECT

BLANK

ACCURACY

%

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: (B)**

BUMHS 2025

Prohibiting smoking in public areas will reduce the occurrence of lung disease. What assumption is present here...

CORE CONCEPT AND DERIVATION

Critical Reasoning – Identifying Assumptions.

Formula: N/A

Solution: An assumption is an unstated premise required for the premise to lead logically to the conclusion.

The argument connects the action (banning public smoking) to the outcome (reducing lung disease). For this to hold true, public smoking must significantly contribute to lung disease.

Why other options are incorrect:

- **Option A:** Directly contradicts the argument's central claim.
- **Option C:** Assumes an extreme condition ('sole cause') which is not required for the statement to hold.
- **Option D:** Makes an absurd and extreme claim that everyone lives in public areas.

Question #2 **Key: (A)**

BUMHS 2025

Prohibiting smoking in public areas will reduce the occurrence of lung disease. What assumption is present here...

CORE CONCEPT AND DERIVATION

Logical Assumptions.

Formula: N/A

Solution: The connection between banning public smoking and reducing lung disease relies on the unstated premise that public smoking contributes significantly to lung disease.

Why other options are incorrect:

- **Option B:** Contradicts the statement.
- **Option C:** Assumes an extreme condition ('sole cause').

Question #3 **Key: (A)**

KMU 2023

Methyl tetrachloride (MTC) is a chemical found in some pesticides, glues, and sealants. Exposure to MTC can ca...

CORE CONCEPT AND DERIVATION

Mathematical Assumptions in Arguments.

Formula: N/A

Solution: To achieve a 50% reduction in total asthma rates solely by eliminating MTC, MTC must account for at least 50% of all asthma cases.

Why other options are incorrect:

- **Option B:** Economic necessity is irrelevant to the medical reduction target.

Question #4 **Key: (A)**

DUHS 2022

After the declaration of company election, the elected chairperson gave his message to the workers that: "The ...

CORE CONCEPT AND DERIVATION

Statement Assumptions.

Formula: N/A

Solution: Pledging to 'serve and not dominate' inherent assumes that management holds the organizational power or capability to dominate workers in the first place.

Why other options are incorrect:

- **Option C:** Directly contradicts the chairperson's statement.