**ITEM NO. 2**

**THEME - NATURE**

**BREATHING EASY**

**CLEAR THE AIR OF INDOOR TOXICS**

As the problem of air pollution reaches catastrophic proportions, each of us becomes an involuntary stakeholder. According to the latest report by the World Health Organization, over one lakh children below five years of age died in India due to both ambient and household air pollution in 2016. Here are some ways to keep yourself and your family safe.

**There’s no good smoke**

Limit the use of candles and agarbattis. Even if they are labelled as being herbal, studies have shown that they emit toxic gases and PM2.5. If you must use them, place them near windows.

**Vacuum thoroughly**

Firstly, clean your house regularly with a vacuum cleaner so that you get rid of dust more efficiently. If you suffer from asthma or allergies, invest in a cleaner with a high-efficiency particulate air (HEPA) filter which will retain particles measuring 0.3 microns and larger, instead of blowing it back into the air.

**Don’t take it to the cleaners**

Perchloroethylene is a liquid solvent used to dry-clean clothes. It is a serious air pollutant and long-term exposure can even cause cancer. Avoid hanging your dry-cleaned clothes in the closet as soon as you get them home. Instead, air them outdoors for a day or two.

**Air purifiers**

Though affordable ones may not be as efficient as high-end air purifiers, they will still help bring down dust, PM levels and other pollutants. Make sure you invest in one that doesn’t emit formaldehyde and ozone as by-products, which further contribute to air pollution.

**Ventilate**

When running your air purifier, keep your windows and doors shut so that you don’t overuse the filter. However, an air purifier doesn’t produce oxygen or reduce carbon dioxide, whose level increases the longer you stay in a room. Hence, it’s important to ventilate your rooms so that you are not constantly breathing in exhaled air. Plus, it’s the only way to get rid of mould and fungi that thrive in closed, damp spaces.

***(Based on the book*How to Grow Fresh Air*, by Kamal Meattle and Barun Aggarwal, published by Juggernaut in November 2018)***

Source Readers digest

**Q. 1.1. What Does the author intend to convey through   the above text? Choose the best option**

1. Agarbathis and Candles do not pollute the air
2. Dry cleaning the clothes will prevent pollution
3. Vacuum cleaners can be dangerous
4. Clear the air of indoor toxics

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| --- | --- | --- |
| Domain:  READING LITERACY | THEME: NATURE  Topic:  **BREATHING EASY** | Class(es ): VII,  Expected time: 30 mts.  **Total Credit: 2/10** |
| Description of Item:   |  |  | | --- | --- | | Yes | Text | |  | Image | |  | Table | |  | Graph | |  | Map | |  | Poem | | Learning Outcomes:  learner will be able to understand the given text and locate information | |

|  |  |
| --- | --- |
| FRAMEWORK | CHARACTERISTICS |
| SCENARIO | PUBLIC |
| TEXT FORMAT | CONTINUOUS |
| TYPE | INSTRUCTION |
| PROCESS | LOCATE INFORMATION |
| ITEM | SIMPLE MCQ |
| PROFICIENCY LEVEL | 1 B |

**Credit Pattern**

Full Credit – 2

Partial – 1

Nil Credit – 0

**DESCRIPTION OF ANSWER KEY AND CREDITS**

|  |
| --- |
| Explain expected answer and the respective credits  SCORING BREATHING EASY  **Scoring 1.1**  Full credit : d) CLEAR THE AIR OF INDOOR TOXICS  Partial credit : No partial credit  No credit : No credit for any other responses |

**Q.1.2.** **According to the latest report presented by WHO, what are the causes for the death of over one lakh children in India?**

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| --- | --- | --- |
| Domain:  READING LITERACY | THEME: NATURE  Topic:  **BREATHING EASY** | Class(es ): VII  Expected time: 30 mts.  **Total Credit: 2/10** |
| Description of Item:   |  |  | | --- | --- | | Yes | Text | |  | Image | |  | Table | |  | Graph | |  | Map | |  | Poem | | Learning Outcomes:  learner will be able to understand the given text and locate information | |

|  |  |
| --- | --- |
| FRAMEWORK | CHARACTERISTICS |
| SCENARIO | PUBLIC |
| TEXT FORMAT | CONTINUOUS |
| TYPE | INSTRUCTIONAL |
| PROCESS | LOCATE INFORMATION |
| ITEM | SIMPLE MCQ |
| PROFICIENCY LEVEL | 1 B |

**Credit Pattern**

Full Credit – 2

Partial – 1

Nil Credit – 0

**DESCRIPTION OF ANSWER KEY AND CREDITS**

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| --- |
| Explain expected answer and the respective credits  **Scoring 1.2** Breathing Easy  Full credit : ambient and household air pollution  Partial credit : No partial credit  No credit : No credit for any other responses |

**Q. 1.3  The age group of the children mentioned in the WHO report is ……….**

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| --- | --- | --- |
| Domain:  READING LITERACY | THEME: NATURE  Topic:  **BREATHING EASY** | Class(es ): VII  Expected time: 30 mts.  **Total Credit: 2/10** |
| Description of Item:   |  |  | | --- | --- | | Yes | Text | |  | Image | |  | Table | |  | Graph | |  | Map | |  | Poem | | Learning Outcomes:  learner will be able to understand the given text and locate information | |

|  |  |
| --- | --- |
| FRAMEWORK | CHARACTERISTICS |
| SCENARIO | PUBLIC |
| TEXT FORMAT | CONTINUOUS |
| TYPE | INSTRUCTIONAL |
| PROCESS | LOCATE INFORMATION |
| ITEM | SHORT RESPONSE |
| PROFICIENCY LEVEL | 1 B |

**Credit Pattern**

Full Credit 2

Partial 0

Nil Credit 0

**DESCRIPTION OF ANSWER KEY AND CREDITS**

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| Explain expected answer and the respective credits  **Scoring 1.3** Breathing Easy  Full credit : 5 YEARS AND BELOW  Partial credit : No partial credit  No credit : No credit for any other responses |

**Q. 1.4 Fill in the blanks using the list of products and its effects in the table given below:**

|  |  |
| --- | --- |
| PRODUCT | EFFECT |
| 1. Air Purifier | 1. Formal dehyde and Ozone |
| 1. Agarbathis and candles | 1. …………………………. |
| 1. Dry cleaners | 1. …………………………. |
| 1. Ventilators | 1. ………………………….. |

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| Domain:  READING LITERACY | THEME: NATURE  Topic:  **BREATHING EASY** | Class(es ): VII  Expected time: 30 mts.  **Total Credit: 2/10** |
| Description of Item:   |  |  | | --- | --- | | Yes | Text | |  | Image | |  | Table | |  | Graph | |  | Map | |  | Poem | | Learning Outcomes:  learner will be able to read, understand and infer | |

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| FRAMEWORK | CHARACTERISTICS |
| Scenario | Public |
| Text Format | Continuous |
| Type | Instructional |
| Process | Understand and Interpret |
| Item | Simple MCQ |
| Level | 1 A |

**Credit Pattern**

Full Credit 2

Partial 0

Nil Credit 0

**DESCRIPTION OF ANSWER KEY AND CREDITS**

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| Explain expected answer and the respective credits  **Scoring 1.4** Breathing Easy  Full credit : Full credit (all three correct answers)  b) Toxic gases PM 2.5  c) Cancer  d) get rid of mould and fungi  Partial Credit : Partial credit for (any two correct answers)  b) Toxic gases PM 2.5  c) Cancer  d) get rid of mould and fungi  No credit : No credit for any other response |

**Q. 1.5. The author says ‘As the problem of air pollution reaches catastrophic proportion, each of us becomes an involuntary stakeholder. In the light of the statement what measures will you take to keep yourself and your family safe? Mention any three measures.**

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| Domain:  READING LITERACY | THEME: NATURE  Topic:  **BREATHING EASY** | Class(es ): VII  Expected time: 30 mts.  **Total Credit: 2/10** |
| Description of Item:   |  |  | | --- | --- | | Yes | Text | |  | Image | |  | Table | |  | Graph | |  | Map | |  | Poem | | Learning Outcomes:  Learner will be able to identify details, main idea. reads, compares, contrasts, thinks critically and relates ideas to life. | |

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| FRAMEWORK | CHARACTERISTICS |
| SCENARIO | PUBLIC |
| TEXT FORMAT | CONTINUOUS |
| TYPE | DESCRIPTION, FACTUAL |
| PROCESS | LOCATE, EVALUATE ADN REFLECT |
| ITEM | OPEN CONSTRUCTED |
| PROFICIENCY LEVEL | 2 |

**Credit Pattern**

Full Credit 2

Partial 1

Nil Credit 0

**DESCRIPTION OF ANSWER KEY AND CREDITS**

|  |
| --- |
| Explain expected answer and the respective credits  **Full Credit**: Full credit if any three correct responses   * Always avoid exercising [near high-traffic areas](http://www.lung.org/our-initiatives/healthy-air/outdoor/air-pollution/highways.html). * Avoid exercising outdoors when pollution levels are high. * Use face masks when outdoor * Ventilate your kitchen, bathroom   **Partial Credit**: Partial credit if any two correct responses   * Install a home air filter that blocks air pollution * Use bike routes * Walking routes that avoid busy streets   **No credit** : No credit for any other response |