

PERIODIC TEST - 3

(Based on Units 5–7)

Time: 1 Hour

Maximum Marks: 50

Let's Read

Read the following passage carefully.

Our environment is facing a crisis. This crisis has been caused due to problems like global warming, ozone hole and acid rain. Let us read about them.

1. GLOBAL WARMING

Activities such as burning of coal, diesel, petrol and natural gas have increased the amount of greenhouse gases like carbon dioxide and methane in the atmosphere.

Greenhouse gases are good at absorbing heat. Hence, they have caused the atmosphere to become warmer. The average temperature of the Earth has increased by almost 0.6°C (1°F) in last 100 years. The increase in the average temperature of the Earth due to the increased greenhouse effect, is called global warming. The effects of global warming are:

- ▶ It destroys crops and affects the life cycles of plants and animals.
- ▶ It causes storms and floods. It causes glaciers and ice sheets to melt at the North Pole and South Pole.

2. OZONE HOLE

The atmosphere of the Earth is divided into many layers. One of the layers is the stratosphere. In the stratosphere, there is a thin layer of ozone gas. The ozone layer is like a protective umbrella which protects the Earth from harmful ultraviolet rays (UV). In 1980s, scientists discovered a hole in the ozone layer. The hole was caused by chlorofluorocarbons (CFCs). These are man-made chemicals and are used in refrigerators, air conditioners and aerosol sprays. CFCs damage the ozone layer. UV rays can pass through the ozone hole. These rays can cause skin cancer and eye problems. These rays also harm plants and animals.

3. ACID RAIN

Vehicles, power stations and factories use fossil fuels such as petrol, coal and natural gas. When these fuels burn, they produce gases like sulphur dioxide and nitrogen oxide. When sulphur dioxide and nitrogen oxide mix with oxygen and water in the air, they change into sulphuric acid and nitric acid. These acids then fall in the form of rain or snow.

Acid rain is very harmful. It can destroy crops. It causes lung diseases in humans. It kills animals living in lakes and rivers.

A. Tick (✓) the correct option.

(5)

1. Which of these is a greenhouse gas?

(a) Oxygen

☐

(b) Carbon dioxide

☐

(c) Chlorine

☐

(d) Hydrogen

☐

2. Greenhouse gases are good at absorbing

(a) heat.

☐

(b) cold.

☐

(c) water.

☐

(d) poisonous fumes.

☐

- | | | | |
|--|--------------------------|----------------------------|--------------------------|
| 3. The full form of CFCs is | | | |
| (a) Chlorofluorinecarbons. | <input type="checkbox"/> | (b) Chlorinefluorocarbons. | <input type="checkbox"/> |
| (c) Chlorinefluorinecarbons. | <input type="checkbox"/> | (d) Chlorofluorocarbons. | <input type="checkbox"/> |
| 4. Ozone gas is present in the | | | |
| (a) troposphere. | <input type="checkbox"/> | (b) exosphere. | <input type="checkbox"/> |
| (c) stratosphere. | <input type="checkbox"/> | (d) mesosphere. | <input type="checkbox"/> |
| 5. When did scientists discover a hole in the ozone layer? | | | |
| (a) 1960s | <input type="checkbox"/> | (b) 1990s | <input type="checkbox"/> |
| (c) 1970s | <input type="checkbox"/> | (d) 1980s | <input type="checkbox"/> |

B. Answer the following questions.

(5)

1. What is global warming?
2. What are the effects of global warming?
3. What are CFCs?
4. How is acid rain caused?
5. Where is the ozone layer found?

Let's Write

- C.** Write a letter to your friend telling him about a magic show you went to with your parents. **(10)**
- D.** Write a short paragraph on your favourite indoor game. **(5)**

Grammar Spotlight

E. Identify the degrees of comparison in the following sentences. Use 'P' for positive degree, 'C' for comparative degree and 'S' for superlative degree against the sentences. (3)

1. Meditation is very good for our mental health.
2. Kapil works more efficiently than Punnet.
3. This is the smallest room in the house.

F. Fill in the blanks with appropriate adverbs from the box. (3)

now	frequently	later	fortunately	very	loudly
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1. _____, I have brought an umbrella.
2. He sings _____ in the shower.
3. He worked _____ hard for the exam.
4. Her mother goes to meet her aged parents _____.
5. She is very busy right _____.
6. We will go for some ice cream _____.

G. Fill in the blanks using a/an/the or (x) (no article) appropriately. (3)

1. She would like to buy _____ electric door safety lock.
2. _____ dog is _____ faithful animal.
3. I am not going to have _____ breakfast today as I am late for office.

H. Fill in the blanks with suitable forms of verbs given in the brackets as per the tense forms mentioned in the sentences. (2)

1. Ravi _____ (visit) the Victoria Memorial tomorrow. (Simple Future Tense)
2. The Prime Minister _____ (leave) for Italy next week. (Present Progressive Tense)

I. Change the following sentences into reported speech. (2)

1. Nidhi said, "Sohan is writing a letter."
2. Vineet said, "I liked the movie."

J. Identify the coordinating and subordinating conjunctions in the following sentences. (2)

1. Since she had fever, she did not go to school.
2. Neither the teacher nor the students were in the classroom.

Literature

J. Answer the following questions. (10)

1. What task was given to Tom by Aunt Polly?
2. How did Rimi take care of Tara?
3. What did Chang tell the emperor?
4. Why did the rain turn acidic?
5. What did Tenali Rama do with the sand?