UNIT 10 PLANET EARTH

A. PHONETICS

I. **Place a mark over the syllables that should be stressed in the words in bold. Then read the sentences aloud.**

Ex: 'Forest 'habitats are con'sidered the 'Earth's 'lungs.

1. **Rainforests** are **home** to a **variety** of **plants** and **animals species.**
2. **Polar bears** are **among** the most **iconic fauna** of the **Arctic.**
3. The **oceans cover approximately** 71% of the **Earth's surface.**
4. **Coral reefs provide shelter** to a **large number** of **marine animals.**
5. Many **plants** and **animals** in the **deserts** are able to **adapt** to **extreme conditions.**
6. **Planting trees** can **help combat deforestation** and **reduce climate change.**
7. **Volunteer activities** such as **beach clean-ups help keep** our **ecosystems clean.**
8. **Human activities have significant impacts** on the **planet's environment.**
9. The **Earth's atmosphere, composed** of **various gases,** is **essential** for **sustaining life.**
10. **Conservation efforts worldwide aim** to **protect** the **ecological balance** of the **Earth.**

II. **Underline the stressed syllables in the sentences. Read the sentences aloud.**

Ex: Plants and animals are essential part of Earth's ecology.

1. Earth's history is recorded in its rocks, fossils, and geological formations.
2. Seagrass beds are critical habitats for marine life such as seahorses and sea turtles.
3. Climate change is affecting global weather patterns, leading to natural disasters.
4. Rivers carve through diverse landforms, shaping valleys and canyons over time.
5. The solar system consists of the Sun, eight planets and their moons.
6. Overfishing and habitat destruction have led to disruptions in oceanic food chains.
7. Venus has a thick atmosphere that traps heat, making it the hottest planet.
8. Fertilisers and pesticides contaminate waterways and cause harmful algal blooms.
9. To prevent pollution in oceans, we should encourage the use of reusable bags.
10. Promoting sustainable farming practices helps preserve soil health and biodiversity.

B. VOCABULARY AND GRAMMAR

I. **Match the words or phrases with their definitions.**

1. flora	a. all the animals living in an area or in a particular period of history
2. solar system	b. either of the two points at the most northern and most southern ends of the earth

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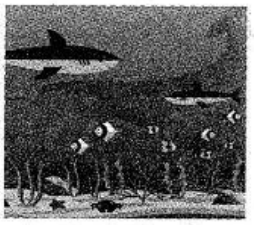
3. landform	c. a large area of open land covered with wild grass
4. habitat	d. a substance added to soil to make plants grow well
5. food chain	e. an area of land where the animals and plants are protected
6. fauna	f. a natural shape on the earth's surface, such as a mountain or a valley
7. nature reserve	g. all the plants of a particular place or from a particular time in history
8. pole	h. a series of living things that are connected because each group of things eat the group below it in the series
9. fertiliser	i. the sun and all the planets that move around it
10. grassland	j. the natural environment in which an animal or plant usually lives

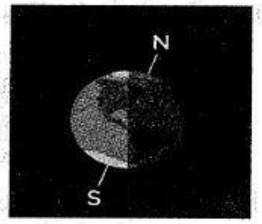
II. Complete the sentences with the words or phrases in part I (use a plural form if necessary). Take the picture as a clue.

1. Earth's diverse _____, from mountains to rivers, make it a unique jewel in the galaxy.

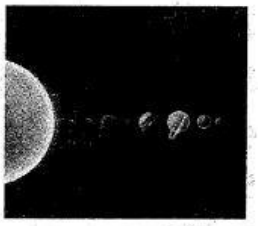
2. The Great Barrier Reef is a vital _____ for countless marine species.



3. The Arctic and Antarctic _____ support unique ecosystems adapted to extreme cold.



4. Earth is the fifth largest planet in the _____, and it's the only one known to have liquid water on its surface.



5. The giant water lily and the Brazil nut tree are among some distinctive _____ found in the Amazon.

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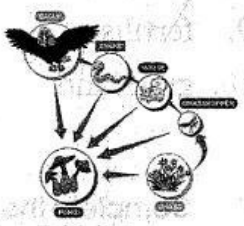
6. Overuse of _____ in agriculture can lead to soil erosion and soil pollution.

7. Protected _____, like Yellowstone National Park, safeguard our precious ecosystems.

8. In an ecosystem, plants and animals need each other to live. This is called a _____.



9. _____ is known for its open landscapes, where grasses dominate the vegetation cover.

10. There are iconic _____ like zebras, giraffes, and wild bulls living in the savannas of Africa.

III. Complete the sentences with the phrases from the box.

temperate forest	polar habitat	climate change	habitat loss	water bodies
living things	outer space	ecological balance	global warming	liquid water

1. Earth is unique in that most of the planet is covered in _____.
2. _____ due to deforestation threatens the survival of many species.
3. Can Hubble Space Telescope take photos of Earth from _____?
4. _____ affects weather patterns, causing extreme weather across the planet.
5. _____ on the Earth's surfaces include oceans, rivers, streams, lakes, etc.
6. The preservation of biodiversity is essential for maintaining _____ in ecosystems around the world.
7. Bears, deer, and songbirds are just a few examples of the diverse species that call the _____ home.
8. The consequences of _____ include rising temperatures and melting ice caps.

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9. Animals living in the _____ rely on sea ice for hunting, breeding, and resting.
10. _____, ranging from microscopic organisms to majestic elephants, contribute to the diversity of life on planet Earth.

IV. Complete the sentences with the correct tense or form of the verbs in the box.

orbit	threaten	launch	cover	appreciate
observe	adjust	protect	affect	preserve

1. On 4 October 1957, the Soviet Union _____ the first artificial satellite, Sputnik 1, into orbit around the Earth.
2. Renewable energy sources offer a way to _____ natural resources and reduce carbon footprint.
3. The moon _____ around the earth, and its gravitational pull influences tides.
4. It's important to _____ coastal areas from erosions and rising sea levels.
5. Astronomers use powerful telescopes to _____ distant celestial bodies.
6. Overfishing _____ to reduce fish populations and disrupt marine food webs.
7. We should take time to _____ the value of Earth's beauty and diverse ecosystems.
8. Acid rain resulting from air pollution _____ soil quality and freshwater ecosystems.
9. Dense forests _____ vast expanses of land on planet Earth, providing habitats for a diversity of flora and fauna.
10. To _____ to shifts in temperature and food availability, animals tend to migrate seasonally.

V. Choose the best answer a, b, c, or d to complete the sentence.

1. Protecting _____ habitats is essential for maintaining marine biodiversity.
   a. forest b. polar c. ocean d. grassland
2. Farmers need to find alternatives to harmful _____ to protect the environment.
   a. pesticides b. medicines c. emissions d. plants
3. Deforestation is a _____ to wildlife habitats around the world.
   a. benefit b. landform c. safety d. threat
4. Biodiversity is _____ for the health and resilience of ecosystems on Earth.
   a. threatening b. vital c. harmful d. ecological
5. The presense of _____ can help researchers identify which animals are active in the area.
   a. droppings b. chains c. reserves d. plants
6. Scientists study the _____ to understand the formation and evolution of planets.
   a. natural habitat b. nature reserve c. solar system d. global warming

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7. Earth's soil _____ nutrients that are essential for growing crops and sustaining agriculture.
   a. orbits b. affects c. preserves d. provides
8. The mountain _____, the highest points of the mountain, are often covered in snow year-round.
   a. ranges b. trails c. bases d. peaks
9. Reducing waste is _____ as a key step in preserving Earth's resources.
   a. supposed b. considered c. caused d. produced
10. A(n) _____ sunset over the savannah painted the sky with brilliant colours.
    a. majestic b. essential c. natural d. tropical

VI. Fill in each blank with a suitable relative pronoun.

1. The Amazon Rainforest, _____ is often called the "lungs of the Earth", is home to numerous species of flora and fauna.
2. Bill Clinton, _____ wife is a brilliant lawyer, became the President of the US in 1993.
3. Mrs Smith, _____ has a lot of teaching experience at junior level, will be joining the school in September.
4. Sydney, _____ has a population of more than three million, is Australia's largest city.
5. Darwin, _____ views changed out view of the world, travelled to a lot of countries.
6. The hijacker gave himself up to police, _____ are now questioning him.
7. We are going to see the new Tom Carter film, _____ was released on Friday.
8. Mr Sheldon, _____ has devoted his time to cleaning up beaches, helps protect the marine ecosystems.
9. Tina got very good marks in the exam, _____ pleased her parents and teachers.
10. Charles Darwin, _____ is best known for his theory of evolution, was an English biologist.
11. The endangered sea turtles, _____ nesting grounds are threatened by humans, face an uncertain future.
12. The Himalayas, _____ peaks are known as the "Roof of the World", are a mountain range in Asia.

VII. Make a non-defining relative clause from the two sentences.

1. Catherine ruled Russia for over 30 years. She made many important changes.

   _____

2. The woman next door is moving next month. I met her for the first time last week.

   _____

3. Starbucks wants to open new stores in China. It does business all over the world.

   _____

LIVEWORKSHEETS

4. The Pacific Ocean is the largest ocean on the planet. It covers more than one-third of Earth's surface.

_____

5. The Games International Company has just gone bankrupt. We have done business with them for many years.

_____

6. Our professor of biology has written some very interesting books. I always attend her lectures.

_____

7. Jane has decided to volunteer in summer. It will be an interesting experience for her.

_____

8. Mrs Molly discovered a new species of plant in the rainforest. She dedicated her life to environmental research.

_____

9. The tigers require urgent help to prevent extinction. Their survival is threatened by habitat loss.

_____

10. Aboriginal Australians have a deep connection to nature. We encountered them on our travels.

_____

VIII. Complete each sentence with a suitable relative pronoun and a clause from the box. Make any necessary changes.

He studied rare flora and fauna found only in remote rainforests.
It offers a range of traditional outdoor recreational activities.
They are located at the northernmost and southernmost points of the Earth.
It is the third-largest ocean in the world.
It pulls things towards the Earth and stops us floating off into space.
We met him during our trek through the jungle.
I interviewed him for my research project.
She is interested in learning about plants and animals.
Their presence is critical to maintaining the ecological balance.
Its habitat ranges over 13 countries across Asia.
He founded a nature reserve in Africa.
I've visited it several times recently.

1. The Indian Ocean _____ is known for its warm waters and diverse marine life.
2. Gravity is the force _____.
3. The conservationist _____ saved countless endangered animals.

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4. They'd like to visit a national park _____.
5. A species _____ is called a keystone species.
6. The Asian elephant _____ is an endangered species with less than 40,000 remaining worldwide.
7. We met a biologist _____ during our hiking trip.
8. Mr Albert _____ highlighted the urgent need for conservation efforts to protect biodiversity.
9. The regions _____ are called the north and south poles.
10. The explorer _____ shared fascinating stories about rare wildlife sightings.
11. Naxos _____ is my favorite island.
12. My best friend _____ wants to become a biologist.

IX. Correct the mistakes with relative clauses or punctuation and write the sentences on the line below.

1. The Glastonbury Festival which is held every June is the largest music festival in the world.

_____

2. The journalist, who work involves a huge amount of international travel, is currently in South America.

_____

3. The subtropical gardens, that we love to walk round, are open all year.

_____

4. Queensland and Victoria, who are Australian states, are named after Queen Victoria.

_____

5. She knew very little about the man, whom she had promised to spend the summer with.

_____

6. The weather is very cold at this time of year, that is why I don't go out very much.

_____

7. Next Saturday, I'm going to visit my grandpa who is staying in a nursing home.

_____

8. There are only one or two Greek Islands, which I haven't visited.

_____

9. I joined an organisation, which supports renewable energy and sustainable practices.

_____

10. The documentary whom director won many awards is about Earth's flora and fauna.

_____

11. We've just bought a computer package that it teaches you how to play the piano.

_____

LIVEWORKSHEETS

12. The swimming pool I often went to it when I was a child has been closed.

_____

X. Choose the best answer a, b, c, or d to complete the sentence.

1. My physics teacher, _____ I always admire, has a vast knowledge about outer space.
   a. that b. which c. whose d. whom
2. My favourite holiday was the one _____ in a cottage in the mountains.
   a. which spent b. that we spent it c. we spent d. where we spent
3. She captured a photo of the bird _____ nested in the tree outside her window.
   a. , whose b. who c. , which d. that
4. The coral reef ____ thrives in warm, shallow waters, supports a vast array of marine life.
   a. which b. , which c. , who d. that
5. They encountered a pack of wolves ____ hunted together, preying on deer in the forest.
   a. , which b. that c. who d. , who
6. Will Smith, _____ recent movies have been serious, was once considered a comic actor.
   a. whose b. who c. which d. Ø
7. The committee, _____ by the Board of Directors next week, is going to be responsible for solving the discipline problems.
   a. appointing b. be appointed
   c. who is appointed d. which will be appointed
8. The polar ice caps _____ are melting at an alarming rate contribute to the rise in sea levels.
   a. , that b. whose c. which d. , who
9. Please don't waste a lot of time correcting details _____ completely inaccurate.
   a. that aren't b. that isn't c. that they aren't d. that it isn't
10. What is the name of the hotel _____ you recommended I stay at when visiting Seoul?
    a. what b. whom c. that d. whose
11. He's the professor _____ classes always score well on standardized tests.
    a. whose b. who c. whom d. that
12. The carnivores, _____ diet consists of meat, occupy the secondary level of the food chain.
    a. whose b. that c. which d. who
13. I told my professor I'd turn in the essay at 9 o'clock, _____ means I'm going to be up all night.
    a. who b. when c. that d. which
14. The book was written by his wife, Joan, _____.
    a. that he married her in 1962 b. who she married him in 1962
    c. whom he married in 1962 d. he married in 1962

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15. Elizabeth Cady Stanton, _____, was one of the foremost women's-rights activists.

a. that was born in 1815 b. whose year was 1815

c. who was born in 1815 d. which she was born in 1815

XI. Fill in each blank with a suitable preposition.

1. Predators such as lions, wolves, and eagles hunt and feed _____ other animals.
2. Forests absorb carbon dioxide from the atmosphere and, _____ turn, release oxygen.
3. Landforms are features on the Earth's surface that make _____ the terrain, such as mountains or valleys.
4. Human activities like deforestation have led to a change _____ the Earth's climate.
5. _____ April 12, 1961, Yuri Gagarin became the first human to go _____ space.
6. Many animals rely _____ seasonal migrations for breeding, feeding and survial.
7. Earth is the third planet _____ the sun and the only planet known to have life on it.
8. Tropical forests provide food and shelter _____ a diversity of fauna living there.
9. Nick was crazy _____ the universe after his visit to the Space Museum in Sweden.
10. Most people have wondered if there is life beyond Earth _____ space.

C. SPEAKING

I. Write questions to complete the conversations.

1. A: _____

   B: Australian Savanna is one of the largest grasslands in the world.
2. A: _____

   B: Australian Savanna is approximately 365,042 km^2.
3. A: _____

   B: Australian Savanna is primarily located in the northern parts of Australia.
4. A: _____

   B: There are two seasons: wet and dry seasons in Australian Savanna.
5. A: _____

   B: The weather there is mostly hot and humid.
6. A: _____

   B: Yes, the vegetation in the savanna is adapted to the seasonal climate patterns.
7. A: _____

   B: Some iconic fauna living in the savanna are kangaroos, koalas, and various species of birds.
8. A: _____

   B: Natural fire in the savanna is essential because it keeps the savanna healthy.

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9. A: _____

   B: Indigenous Australian communities have inhabited the savanna for thousands of years.

10. A: _____

    B: The government has made efforts in biodiversity conservation to protect the savanna.

II. Choose the best answer to complete the conversations.

1. A: The local animal shelter is recruiting volunteers. _____

   B: OK, I'll think about that.

   a. What do you like doing there?
   b. Why don't you give it a go?
   c. Do you have any free time?
   d. How would you do that?

2. A: How would you feel about going on a hiking trip next month? It's going to be an amazing adventure!

   B: _____ I prefer more relaxed vacations.

   a. Hiking isn't really my thing.
   b. Alright. I'll go with you.
   c. I feel so sorry for you.
   d. How do I sign up for the trip?

3. A: Hey, I heard you have an exam coming up. _____

   B: Thanks a lot.

   a. Let's study together later.
   b. Would you like to teach me?
   c. I hope I can pass this.
   d. Good luck with your studies!

4. A: Can we enter this part of the forest?

   B: _____ This is restricted area.

   a. Sure. You're always welcomed.
   b. No, sorry, you can't.
   c. Yes. Thank you so much.
   d. Of course. Be my guest.

5. A: I think you should start a vegetable garden in our backyard. You can eat fresh and organic products.

   B: _____

   a. That's very rich of you to do so.
   b. Your contribution will help protect the planet.
   c. I'm not sure if I have the time to take care of it.
   d. Why don't you think about that?

D. READING

I. Complete the passage with words from the box.

metal	hospitable	exist	covered
inhabited	surface	climate	simply

LIVEWORKSHEETS

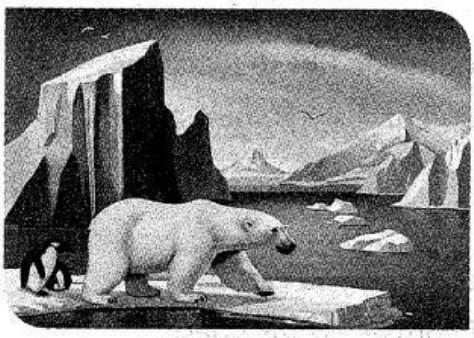
Earth – our home planet – is the third planet from the Sun, and the fifth largest planet. It's the only place we know of (1)_____ by living things.

While Earth is only the fifth largest planet in the solar system, it is the only world in our solar system with liquid water on the (2)_____. Just slightly larger than nearby Venus, Earth is the biggest of the four planets closest to the Sun, all of which are made of rock and (3)_____.

Earth is the only planet in the solar system whose English name does not come from Greek or Roman mythology. The name was taken from Old English and Germanic. It (4)_____ means "the ground." There are, of course, many names for our planet in the thousands of languages spoken by the people of the third planet from the Sun.

Earth has a very (5)_____ temperature and mix of chemicals that have made life abundant here. Most notably, Earth is unique in that most of our planet is (6)_____ in liquid water, since the temperature allows liquid water to (7)_____ for extended periods of time. Earth's vast oceans provided a convenient place for life to begin about 3.8 billion years ago. However, some of the features of our planet that make it great for sustaining life are changing due to the ongoing effects of (8)_____ change.

II. Read the passage carefully, then do the tasks.



Polar habitats cover the top and bottom of planet Earth at the North and South Poles. The North Pole is surrounded by the Arctic Ocean. There isn't any land here, just a group of continually shifting ice sheets. Parts of Canada and Greenland are near the North Pole. The South Pole is located in Antarctica. This area has land, but it's completely covered with a layer of ice that's almost 3 miles thick.

The polar regions have two seasons: summer and winter. In the summer, the sun shines 24 hours a day, but it never gets high enough above the **horizon** to warm things up, so even summers are pretty cold. It's dark all winter because the sun doesn't rise during those months of the year. Fierce continuous winds make it feel even colder.

It's much too cold and dry for trees to grow in most areas of the Arctic, and there is no room for their roots, because just under the surface of the ground there is always a layer of ice, called permafrost. You won't find trees in Antarctica, but some types of small shrubs, lichens, mosses, and algae are able to grow in the harsh climate.

Polar bears and arctic foxes are adapted to the extreme weather of the Arctic region. Walruses and humpback whales live in the Arctic ocean. Several kinds of penguins, including the emperor penguin, live in Antarctica, and so do walruses and narwhals.

LIVEWORKSHEETS

A. Decide whether the following sentences are true (T) or false (F).

1. The North Pole has mainly land and the South Pole has mainly ice sheets.
2. Summer in the polar habitats is hot because the sun shines 24 hours a day.
3. During winter, the polar habitats are dark because there is no sun.
4. It's often colder in the winter because of the continuous winds.
5. Trees cannot grow in the South Pole, but some other types of vegetation can.
6. Polar bears and penguins are the only two fauna that can get adapted to the polar habitats.

B. Choose the correct answers.

1. According to the first paragraph, the North Pole _____.
   a. includes Canada and Greenland
   b. is located on Antarctica
   c. has ice that's almost three miles thick
   d. has a lot of shifting ice sheets
2. The word **"horizon"** in paragraph 2 mostly means _____.
   a. sea level
   b. skyline
   c. ice sheet
   d. the Earth
3. Why can't trees grow in the Arctic?
   a. Because the permafrost prevents the roots from growing.
   b. Because the sun doesn't rise most of the time.
   c. Because shrubs and lichens grow instead of trees.
   d. Because the winds make the weather even colder.
4. What animal can be found in both the North and South Poles?
   a. Polar bears
   b. Emperor penguins
   c. Humpback whales
   d. Walruses
5. Which of the following sentences is NOT true about the polar habitats?
   a. There is land covered with ice in the South Pole.
   b. There are other types of penguins besides the emperor penguins in the South Pole.
   c. The polar habitats have four seasons just like other parts of the world.
   d. It's cold and dry in most areas of the Arctic.

E. WRITING

I. Write sentences, using the clues given.

1. Flora and fauna/ be/ fascinating/ because/ their beauty/ significance/ human life.

   _____

2. The Earth,/ surface/ be/ mostly water,/ be/ often/ call/ the "Blue Planet".

   _____

3. Forest habitats/ provide/ homes/ animals/ such/ bats/ owls/ deer/ squirrels, etc.

   _____

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4. Earth/ form/ approximately/ 4.5 billion/ ago/ from/ dust and gas/ surround/ young Sun.

_____

5. recent years/ human activities/ remarkably/ alter/ Earth's climate/ habitats.

_____

6. If/ deforestation/ continue/ many species/ lose/ their habitats/ face/ extinction.

_____

7. I/ wish/ humans/ prioritise/ conservation efforts/ protect/ ecosystems/ planet Earth/ the future.

_____

8. The oceans,/ cover/ more/ 70%/ Earth's surface,/ play/ crucial role/ regulate/ the climate.

_____

9. The man/ give/ a speech/ ecological balance/ present/ be/ well-known/ Earth scientist.

_____

10. How many/ satellites/ NASA/ launch/ orbit/ up to the present?

_____

II. Complete the second sentence so that it has the same meaning as the first.

1. The moon has fascinated humans for centuries. Its gravitational pull affects ocean tides.

→ The moon, _____

2. No place on Earth is as dry as the Atacama Desert of northern Chile.

→ The Atacama Desert _____

3. It's upsetting that humans are destroying Earth's habitats day by day.

→ I wish _____

4. These farmers started to practise sustainable agriculture five years ago.

→ These farmers have _____

5. The members participate in clean-up activities every week. He's one of the members.

→ He's _____

6. Let's make a presentation on different types of landforms on Earth.

→ How _____

7. The koalas couldn't escape because of the raging fire.

→ The raging fire prevented _____

8. "Are you attending the conference on climate change this Friday?" asked Mr Brown.

→ Mr Brown asked me _____

9. Don't press that button on the keyboard, or you'll lose what you've written.

→ If _____

10. "How long does it take to get to Mars?" Jim asked his father.

→ Jim asked _____

LIVEWORKSHEETS