- 1. Earth is the third planet from the Sun.
- 2. It is the only known planet that supports life.
- 3. Earth is about 4.54 billion years old.
- 4. It formed from the solar nebula along with the rest of the solar system.
- 5. Earth's shape is an oblate spheroid.
- 6. That means it's slightly flattened at the poles and bulged at the equator.
- 7. The equatorial diameter is about 12,756 km.
- 8. The polar diameter is about 12,714 km.
- 9. Earth's circumference is about 40,075 km.
- 10. Its surface area is around 510 million square kilometers.
- 11. About 71% of Earth's surface is covered by water.
- 12. The remaining 29% is land, including continents and islands.
- 13. The oceans include the Pacific, Atlantic, Indian, Southern, and Arctic.
- 14. Earth has one natural satellite: the Moon.
- 15. The Moon orbits Earth every 27.3 days.
- 16. Earth's axis is tilted at about 23.5 degrees.
- 17. This tilt causes the seasons.
- 18. Earth orbits the Sun in about 365.25 days.
- 19. This extra 0.25 days gives rise to leap years.
- 20. Earth rotates once every 24 hours.
- 21. This rotation causes day and night.
- 22. Earth's atmosphere is a mix of gases.
- 23. It is composed of 78% nitrogen and 21% oxygen.
- 24. The remaining 1% includes argon, CO₂, and trace gases.
- 25. The atmosphere has five layers:
- 26. Troposphere, stratosphere, mesosphere, thermosphere, and exosphere.
- 27. Weather occurs in the troposphere.

- 28. The ozone layer is found in the stratosphere.
- 29. The ozone layer protects life from harmful UV radiation.
- 30. Earth's magnetic field shields it from solar wind.
- 31. This field is generated by the motion of molten iron in the outer core.
- 32. Earth's internal structure has four layers:
- 33. Crust, mantle, outer core, and inner core.
- 34. The crust is the outermost solid layer.
- 35. The mantle lies beneath the crust.
- 36. The outer core is liquid iron and nickel.
- 37. The inner core is solid due to immense pressure.
- 38. Earth's surface is divided into tectonic plates.
- 39. These plates move slowly, causing earthquakes and volcanic activity.
- 40. Plate boundaries are zones of high geological activity.
- 41. Continents drift over millions of years.
- 42. All continents were once part of a supercontinent called Pangaea.
- 43. Earth's highest point is Mount Everest at 8,848 meters.
- 44. The lowest point on land is the Dead Sea shore.
- 45. The deepest ocean point is the Mariana Trench.
- 46. Earth has diverse ecosystems: forests, deserts, oceans, and tundras.
- 47. Life on Earth ranges from microscopic bacteria to large whales.
- 48. Biodiversity is essential for ecosystem stability.
- 49. Earth's climate varies by region and season.
- 50. Climate is influenced by latitude, altitude, and ocean currents.
- 51. Earth experiences natural cycles such as El Niño and La Niña.
- 52. Human activity has significantly impacted Earth's climate.
- 53. Burning fossil fuels increases greenhouse gases.
- 54. This leads to global warming and climate change.

- 55. Rising temperatures cause melting glaciers and sea-level rise.
- 56. Deforestation reduces biodiversity and contributes to CO₂ buildup.
- 57. Conservation efforts aim to protect Earth's environment.
- 58. Earth has about 8 billion human inhabitants.
- 59. Humans have built civilizations, cities, and infrastructure.
- 60. There are over 190 recognized countries.
- 61. Earth has rich cultural, linguistic, and religious diversity.
- 62. Humans rely on Earth's natural resources for survival.
- 63. These include water, soil, minerals, and fossil fuels.
- 64. Sustainable development seeks to balance human needs with environmental health.
- 65. Earth is observed from space using satellites.
- 66. The first image of Earth from space was taken in 1946.
- 67. The famous "Blue Marble" photo was taken by Apollo 17 in 1972.
- 68. Earth looks mostly blue due to its vast oceans.
- 69. Space agencies like NASA and ESA study Earth's systems.
- 70. Earth has experienced mass extinction events.
- 71. The most famous one wiped out the dinosaurs 66 million years ago.
- 72. These events shape evolution and biodiversity.
- 73. Earth's biosphere includes all living organisms and their environments.
- 74. The hydrosphere encompasses all water bodies.
- 75. The lithosphere includes Earth's solid outer shell.
- 76. The atmosphere and climate interact with the biosphere.
- 77. Earth's gravity holds the Moon in orbit.
- 78. It also retains the atmosphere and oceans.
- 79. The gravitational pull keeps objects on the surface.
- 80. Earth receives energy from the Sun.
- 81. This energy drives weather, climate, and photosynthesis.

- 82. Plants convert sunlight into food through photosynthesis.
- 83. Animals depend on plants and each other for food.
- 84. Earth's axial tilt causes solstices and equinoxes.
- 85. Solstices mark the longest and shortest days of the year.
- 86. Equinoxes occur when day and night are equal in length.
- 87. Earth's precession alters the orientation of its axis over time.
- 88. Milankovitch cycles influence long-term climate changes.
- 89. Earth is part of the solar system.
- 90. It orbits the Sun with seven other planets.
- 91. Earth is the densest planet in the solar system.
- 92. It is the fifth-largest in size.
- 93. Earth's Moon stabilizes its axial tilt.
- 94. The Moon causes tides in Earth's oceans.
- 95. Earth has been explored extensively by science.
- 96. Yet many parts of the deep ocean remain unknown.
- 97. Earth is both fragile and resilient.
- 98. It is our only home in the universe so far.
- 99. Protecting Earth is a global responsibility.
- 100. Understanding Earth helps ensure a sustainable future for all life.

THANK YOU