

GREEN Olympiad
Sample Questions

1. If Gaia is the personification of earth in ancient Greek mythology, who personifies the sky?
 - a) Chaos
 - b) **Uranus**
 - c) Athena
 - d) Tethys

2. A Nobel laureate, also known as the father of the 'Green Revolution,' had developed high-yielding and disease-resistant wheat that nearly doubled India's wheat output and prevented famine in the developing world. This 1970 recipient of the Nobel Peace Prize was a distinguished professor at Texas A&M University, when he passed away in 2009. Who are we talking about?
 - a) Justus von Liebig
 - b) M S Swaminathan
 - c) Robert Bakewell
 - d) **Norman Borlaug**

3. Beekeeping is the maintenance of honey bee colonies, commonly in hives, by humans. A beekeeper keeps bees in order to collect honey and other products of the hive (including beeswax, propolis, pollen, and royal jelly). What is the place where bees are kept, called?
 - a) Glass House
 - b) Aquarium
 - c) **Apiary**
 - d) None of the above

4. This is a practice of growing two or more crops in the same field in a given year. Though it often requires more labor, it has several advantages over monoculture. What is this type of agriculture called?
 - a) **Multiple Cropping**
 - b) Mixed Cropping
 - c) Crop Rotation
 - d) Monoculture

5. The world's population reached seven billion in 2011. According to the United Nations report when will it reach eight billion?
 - a) 2015
 - b) 2018
 - c) **2025**
 - d) 2035

6. Tanning is the process by which raw animal hides are converted into leather. The leather is made resistant to biological decay by stabilizing the collagen structure of the hide. Name the type of cell which synthesizes collagen in animals?
- Epithelial cells
 - Fibroblast**
 - Nerve cells
 - Blood cells
7. '*A Sand County Almanac*', first published in 1949 is a landmark book in American conservation movement. More than 2 million copies printed and translated into twelve languages, the book is best known for its idea of 'land ethic' which means that "A thing is right when it tends to preserve the integrity, stability, and beauty of the biotic community. It is wrong when it tends otherwise." Name the author of this non-fiction.
- Rachel Carson
 - Al Gore
 - Aldo Leopold**
 - John Muir
8. The 2011 earthquake in Japan caused a tsunami that killed more than 15000 people and led to a nuclear crisis. It also shifted the Earth on its axis and caused one of the islands to move to the east by approximately 2.4 meters. Name this island.
- Hokaido
 - Honshu**
 - Shikoku
 - Kyushu
9. Electricity generated from fossil fuels such as coal and crude oil to run the industries lead to high concentrations of harmful gases in the atmosphere causing ozone depletion and global warming. What does coal and oil have in it that releases as oxides into the atmosphere?
- Sulphur**
 - Magnesium
 - Phosphorus
 - Lead
10. What is the term given to soil that settles in water?
- Top soil
 - Sediment**
 - Sand
 - Gravel

11. "The Queen of Herbs" is the most sacred herb of India. This medicinal plant has importance in Hindu mythology. This has the scientific name *Ocimum sanctum*. What is it commonly called?
- Tulsi**
 - Rosemary
 - Thyme
 - Oregano
12. The Montreal protocol on substances that deplete the ozone layer was an international treaty designed to protect the ozone layer by phasing out the production of numerous substances believed to be responsible for ozone depletion. One organic compound that was widely used as refrigerants, propellants (in aerosol application) and solvents to be phased out was:
- Carbon Monoxide
 - Chlorofluorocarbons**
 - Hydrocarbons
 - Carbon Dioxide
13. A nationwide programme of ambient air quality monitoring known as the National Air Quality Monitoring Programme (NAMP) is being conducted across the country. Under the NAMP, 4 air pollutants are monitored. Name these pollutants.
- SO₂, NO₂, SPM and RSPM**
 - CO, SO₂, NO₂ and SPM
 - CO, SO₂, NO₂ and RSPM
 - SO₂, NO₂, CO and CO₂
14. SPM is an air pollutant that can cause several respiratory health problems in humans. It can reduce visibility and thus cause traffic jams and accidents. Its deposition on soil could deplete soil nutrients and also reduce the productivity of plants. What does SPM stand for?
- Solid Particulate Matter
 - Suspended Particulate Matter**
 - Safe Particulate Matter
 - None of the above
15. The thermal power generation plants through the process of coal combustion produce a byproduct which is known as _____.
- Bagasse
 - Fly ash**
 - Carbon dioxide
 - Sulphur dioxide

16. In order to reduce air pollution from Industrial operations, some pollution control devices have been developed. Name the apparatus that either traps the particulate air pollutants, or uses liquid spray to wash out the solid and liquid particulate matter or may chemically neutralize or absorb the pollutant gases.
- a) Chimney
 - b) Scrubber**
 - c) Regulation of stack height
 - d) Electrostatic induction
17. In 1905, a Glasgow public health official, Dr H A Des Voeux coined a term to describe a condition had impaired visibility due to the presence of air pollutants. The term was _____.
- a) Haze
 - b) Smog**
 - c) Mist
 - d) Fog
18. Astronomers discovered a number of planets in 2011 that they thought to be fit for life and similar to earth. What is the popular nickname for these planets?
- a) Snow White planet
 - b) Goldilocks planet**
 - c) Red riding hood planet
 - d) Gretel planet
19. The Three Gorges Dam in China, completed in May 2006, is the world's largest, hydropower project. Name the gorges that got flooded and filled due to the construction of the dam?
- a) Qutang, Wu Xia, and Xiling**
 - b) Yangtze, Mekong, Qutang
 - c) Xiling, Yangtze, Mekong
 - d) Wu Xia, Lijiang, Mekong
20. In India, all vehicles in use need to obtain emission check certificate. What is this certificate known as?
- a) Emission Under Control
 - b) Emission Check Certificate
 - c) Pollution Under Control**
 - d) Pollution Check Certificate
21. The lines on a weather map or synoptic chart are called isobars. What do they join?
- a) Wind speed
 - b) Places of equal temperature
 - c) Places of equal air pressure**
 - d) Places having similar climate

22. Which of the following is not yet a UNESCO World Heritage Site in India?
- a) **River Island of Majuli, Midstream of Brahmaputra River, Assam**
 - b) Taj Mahal, Agra, Uttar Pradesh
 - c) Great Living Chola Temples, Thanjavur, Tamil Nadu
 - d) Sundarbans National Park, West Bengal
23. What kind of weather does a high pressure system bring?
- a) **Dry, stable conditions with little cloud**
 - b) Hot, humid days with high winds
 - c) Rainy conditions
 - d) A rapid increase in temperature
24. Which area in the Nanda Devi Biosphere reserve in India harbors a population of many celebrated flowers like the Brahma Kamal, the Blue Poppy and the Cobra Lily?
- a) **Valley of Flowers**
 - b) Silent Valley
 - c) Serengeti Valley
 - d) None of the above
25. The main character in the animated film 'Finding Nemo' is a member of which species of fish?
- a) Catfish
 - b) Goldfish
 - c) **Clownfish**
 - d) Blowfish