

## Science & Technology – UPSC MCQs

Here are 20 multiple-choice questions (MCQs) on science and technology that could be relevant for the UPSC examination:

1. Which of the following is not a programming language?

a) Python b) Java c) HTML d) Ruby Answer: c) HTML

2. The Hubble Space Telescope is managed by which space agency?

a) NASA b) ESA c) ISRO d) Roscosmos Answer: a) NASA

3. The term "CRISPR" in genetic engineering stands for:

a) Clustered Regularly Interspaced Short Palindromic Repeats

b) Coded Rapidly Interspaced Short Palindromic Repeats

c) Clustered Repeated Short Protein Repeats

d) Coded Rapid Short Protein Repeats

Answer: a) Clustered Regularly Interspaced Short Palindromic Repeats

4. Which of the following is a renewable energy source?

a) Coal

b) Natural Gas

c) Solar Energy

d) Nuclear Energy

Answer: c) Solar Energy



5. What is the primary purpose of a "LiDAR" system?

a) Measuring temperature

b) Measuring distance

c) Measuring pressure

d) Measuring velocity

Answer: b) Measuring distance

6. Which of the following materials is commonly used in the manufacture of solar cells?

a) Silicon
b) Aluminium
c) Copper
d) Iron
Answer: a) Silicon

7. The "Artemis" mission is associated with which space agency?

a) NASA b) ISRO c) JAXA d) ESA Answer: a) NASA

8. The phenomenon of superconductivity is observed at:

a) High temperaturesb) Room temperaturesc) Low temperaturesd) Any temperatureAnswer: c) Low temperatures

9. The term "Moore's Law" refers to:

a) The doubling of the number of transistors on a microchip every two years

b) The reduction in the cost of electronic devices over time

c) The increase in battery life of mobile devices over time

d) The increase in internet speed over time

Answer: a) The doubling of the number of transistors on a microchip every two years

10. Which of the following is a non-biodegradable material?

a) Paper

b) Glass

c) Cotton

d) Vegetable peels

Answer: b) Glass



11. In the context of satellite communication, what does "GEO" stand for?

- a) Global Earth Orbit
- b) Geosynchronous Earth Orbit
- c) General Earth Orbit
- d) Geostationary Earth Orbit

Answer: d) Geostationary Earth Orbit

12. "Blockchain" technology is primarily used in:

a) Artificial Intelligence
b) Cryptocurrencies
c) Biotechnology
d) Renewable Energy
Answer: b) Cryptocurrencies

13. The "Square Kilometer Array" (SKA) is a project related to:

a) Particle physics
b) Gravitational waves
c) Radio astronomy
d) Quantum computing
Answer: c) Radio astronomy

14. The chemical element "Technetium" is unique because:

a) It is the first element to be artificially produced

b) It is the most abundant in the Earth's crust

c) It is the heaviest naturally occurring element

d) It is used exclusively in nuclear reactors

Answer: a) It is the first element to be artificially produced

15. The process of "photosynthesis" primarily takes place in which part of the plant?

- a) Roots
- b) Stem
- c) Leaves
- d) Flowers

Answer: c) Leaves



16. The "Large Hadron Collider" is located in:

- a) United States
- b) Switzerland
- c) Japan
- d) China

Answer: b) Switzerland

17. The first artificial satellite, Sputnik 1, was launched by which country?

a) United States
b) Soviet Union
c) China
d) United Kingdom
Answer: b) Soviet Union

18. "5G" technology primarily relates to:

a) Space exploration
b) Wireless communication
c) Quantum computing
d) Nanotechnology
Answer: b) Wireless communication

19. Which of the following elements is essential for the production of nuclear energy in most power plants?

a) Hydrogen b) Uranium c) Carbon d) Nitrogen Answer: b) Uranium

20. The concept of "Internet of Things" (IoT) refers to:

a) Interconnected computing devices embedded in everyday objects

b) A global network of supercomputers

c) A new type of internet browser

d) The next generation of social media platforms

Answer: a) Interconnected computing devices embedded in everyday objects