

## General Science - 10th Class General Science English Medium Full Book Short Questions Test

Q1. What is electronics.

**Ans 1:** Electronics: "Electronics is the knowledge of behaviour and control of electric current." Electronics uses electric current to convert information into signals. These signals could be of sound, picture, numebr of other information.

Q2. What is electric current.

**Ans 1:** "The amount of charge that passes through any cross-section in one second is called current."

**Ans 2:** If charge 'Q' passes through any cross-section in time 't' seconds then the current I can be written as.  $I = Q/t$

**Ans 3:** The SI unit of current is ampere (A)

Q3. What is the difference between nuclear fission and nuclear fusion.

**Ans 1:** Obtaining nuclear energy by the breakdown of nuclei of heavy atoms is called nuclear fission while the release of nuclear energy during the fusion of the nuclei or small atoms is called nuclear fusion.

Q4. What is the difference between Graphic designs and Data Managing.

**Ans 1:** Graphic Desingns: drawing pictures and designs on computer is called graphic designs.

**Ans 2:** Data Managing: SToRing data in files, its rearrangement and obtaining require results is called Data Managing.

Q5. Define Isotopes.

**Ans 1:** Isotopes are teh nuclei of the same atomic number and different mass number and have the same chemical properties. e.g. chlorine 35 and chlorine 37 are the two isotopes of chlorine.

Q6. What is Graphics.

**Ans 1:** There are certain programs, which provide facility to draw straight and curved lines these programs are used to draw diagrams and pictures, colours and shades can also to filled in pictures. Drawing lines, making pictures and designs by computer is called graphics.

Q7. What is amplifiers.

**Ans 1:** These signals are then amplified Audio signals goes to the speaker, which converts it into sound, video signal goes to the picture tube.

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Q8. Define hydroelectric power.

**Ans 1:** The conversion of the kinetic energy of running water to electrical energy is known as hydroelectric power.

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Q9. From where the satellites get electric power.

**Ans 1:** Electrical power for the satellites is provided from panels of solar cells. These panels convert solar energy to electricity. The spacecraft traveling far away from the sun carry small nuclear reactors with them to generate the required power.

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Q10. What is Laser.

**Ans 1:** Laser is an abbreviation of the "Light amplification by Stimulated Emission of Radiation" The first laser ever used is ruby crystal, which is excited by a powerful flash of light. Laser is an intense beam of light in which all the waves have the same wavelength and all are in phase. Such a beam of light is called monochromatic.

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Q11. What do you mean by Satellites

**Ans 1:** Satellites are spacecrafts, which revolve around a planet in specific orbits.

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Q12. What is Information Technology.

**Ans 1:** The scientific method of storing information processing and using them properly and their communication is called information Technology.

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Q13. Define Light energy.

**Ans 1:** Energy due to which we see things.

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Q14. Where is a shunt resistance connected to convert a galvanometer into ammeter.

**Ans 1:** Ammeter is made by connecting a small resistance in parallel to small resistance is called the "Shunt"

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Q15. Define A.L.U

**Ans 1:** Arithmetic and logic unit does mathematical operations such as addition, subtraction, multiplication, division etc and allow it performs logical operations such as comparison between two things.

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Q16. Define total internal reflection.

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**Ans 1:** When a ray of light passes from a denser to a rarer medium it bends away from the normal to the interface. Now if we go on increasing the angle of incidence then at a particular angle of incidence, the angle of refraction will become  $90^\circ$ , when the angle of incidence is made greater than  $x$ , the ray does not refract but reflects into the same medium. It is called Total Internal Reflection.

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Q17. Define Email.

**Ans 1:** A major use of internet is the quick mailing called electronic mail or simply E-mail.

**Ans 2:** Through this, you can send your message immediately to any person all over the world. If the concerned person is not present, he can read the message later as well.

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Q18. What is communication system.

**Ans 1:** The electronic transfer of information from one place to another is known as communication.

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Q19. What is Internet.

**Ans 1:** Internet is the name of interconnection of millions of computers. Not only you can exchange information through internet but also you can get information of every type. The individuals and organizations from all over the world have stored information on the internet in the form of web sites.

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Q20. Define degradation of Environment.

**Ans 1:** When pollution more than a certain limit is added to environment it is known as degradation of the environment.

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