100 Questions

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1. What is the best conductor of electricity?	-Salt water
2. Which is used as a coolant in nuclear reactors?	—Liquid sodium
3. Optic fibres are mainly used for which purpose?	– Communication
4. Mesons are found in which rays?	– Cosmic rays
5. Old-written material, which cannot be read easily, how can be read?	– By infrared rays
6. In an atomic nucleus, by which force are neutrons and protons held together?	– Exchange forces
7. Which purified oil does Aviation fuel for jet aeroplanes consist?	– Kerosene
8. Who received Nobel Prize twice for the same subject?	– Marie Curie
9. What does Every object at a temperature above absolute zero?	- Radiates energy
10. By whom was Electron first identified?	-J.J. Thomson
11. In our houses we get 220 V A. C What does the value 220 represent?	– Effective voltage
12. What does the rise of mercury in a barometer indicate?	- Fair weather
13. What is the energy of the winds and the waves?	– Kinetic
14. If the temperature of a semiconductor rises, what is its resistivity?	– Decrease
15. How does Transfer of heat energy from the sun to the moon take place?	– By radiation only
16. A fan produces a feeling of comfort during hot weather. Why? — Our pers	
17. Why are Clear nights cooler than cloudy nights?	- Because of radiation
18. In which transmission are sound and video signals transmitted simultaneously?	
19. Which is most efficient engine?	– Electric
20. Between which bodies is one Astronomical Unit the average distance?	– Earth and the Sun
21. To an astronaut, how does outer space appear?	– Black
22. When iron rusts, how is its weight?	– Increases
23. Which is the colour of the outer edge of the rainbow?	– Red
24. Of which irom is Core of transformer made up?	– Soft iron
25. Whose experiments proved that the speed of light was always the same?	– Michelson and Morley

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27. In a sitar wire which type of vibration is produced? 28. Which common devices works on the basis of the principle of mutual induction? - Transformer 29. Through which material does sound travel slowest? - Wood 30. Which is printed on a commonly used fluorescent tube light? - 6500 k 31. How must be the The lines of force of a uniform magnetic field? - Parallel to each other 32. Which would expand the most on being heated? - Air 33. What will be best colours for a Sun umbrella? - White on top and black on inside 34. What do we use in SONAR? - Ultrasonic waves 35. A body has a mass of 6 kg on the Earth; when measured on the Moon, what would be its mas? - 6 kg 36. At the time of short-circuit, what will be the current in the circuit? - Increases heavily 37. How can one can distinguish a telescope from a microscope? - By observing size of the lens 38. Which sound-produced by a bat? - Ultrasonic 39. How is the frequency of ultrasound wave typically? - Above 20,000 kHz 40. By which impact is Nuclear fission is caused? - Neutron 41. The wavelength of X-rays is of the order of howmany angstrom? - 1 Angstrom 42. Which of the following is used as 'a moderator in nuclear reactor? - Graphite 43. Which of the following is good nuclear fuel? - Plutonium-239 44. What is the wavelength of visible spectrum? - 3900-7600 A 45. In which technology do Cryogenic engines find applications? - Rocket technology 46. In a refrigerator, by which is cooling is produced? - By the evaporation of a volatile liquid 47. Which polymer is widely used for making bullet proof material? - Polyethylene 48. Who is the recepient of Nobel Prize for the development of Wireless Telegraphy? - Marconi 49. Who laid the foundation of nuclear science in the country? - Homi J. Bhabba 50. What happens to the level of mercury in the barometer tube when it is taken down a coal mine? - It rises	26. Which is the unit of activity of a radioactive source?	- Becquerel
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forms erect, reduced images	51. A convex mirror makes a good rear-view mirror for a car. Why? —It
– Specific resistance	52. 'mho' is the unit of which unit?
$-3 \times 10^8 \text{ m}$	53. What is the approximate velocity of light per second?
should he throw it? -45°	54. If one wants to throw a cricket ball to the maximum distance, then at which angle
- Temperature inversions	55. How are Air-pockets that cause aircrafts to lose altitude suddenly caused?
– x-rays and gamma rays	56. Which pairs of rays is electromagnetic in nature?
ne solids have high elasticity	
se of total internal reflection	•
	59. With which instrument can a sailor in a submarine see the objects on the surface
- Conservation of momentum	
	61. The hydraulic brakes used in automobiles is a direct application of which law?
– 746 watts	62. One horse power is equal to howmany watts?
-7	63. What is the number of basic units in the International System of Units?
- 0.62	64. If you swim one km, how many miles do you swim?
	65. The pH of water at 25°C is 7. When it is heated to 100°C, then what will be the pH
Vith increase of temperature	66. How can the quantity of water vapour the atmosphere hold increases?
Due to the centrifugal force	,
Secause of scattering of light	68. We cannot see during a fog. why? -1
	69. In storms, the roofs of some houses are carried away. According whom is this?
ue to total internal reflection	70. Why is phenomenon of mirage? – D
– First law of motion	71. Which law is involved in the act of cleaning a carpet by beating it with a stick?
-Acceleration	72. Which remains constant while throwing a ball upward?
– Resistance	73. DC current can be controlled by which component?
– Gamma-rays	74. Which radiation carries maximum energy?
—Human body	75. Which is a good conductor of electricity?

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85. When light passes from air into glass it experiences change in which things? — Wavelength and spee 86. The working of optical is based on which of electromagnetic waves? — Total internal reflectio 87. Soap is used in washing. Why? — It lowers the surface tension of water 88. Sound travels faster in which thing? — Iron than in air 89. Why is the term 'hydroponics' used? — To describe cultivation of plants in water 90. When the greatest pressure exerted on the ground by a man? — When he stands on the toes of one for 91. 'Hydraulic brakes' and 'Hydraulic lift' are devices, why are fluids used in them? — For transmitting pressure 92. In an atomic explosion, enormous energy is released why? — Due to the conversion of mass into energy 93. Why is a moderator used in nuclear reactors? — In order to slow down the speed of neutron	83. By whom was Neutron discovered?	– Chadwick
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87. Soap is used in washing. Why? — It lowers the surface tension of water 88. Sound travels faster in which thing? — Iron than in all 89. Why is the term 'hydroponics' used? — To describe cultivation of plants in water 90. When the greatest pressure exerted on the ground by a man? — When he stands on the toes of one for 91. 'Hydraulic brakes' and 'Hydraulic lift' are devices, why are fluids used in them? — For transmitting pressure 92. In an atomic explosion, enormous energy is released why? — Due to the conversion of mass into energy 93. Why is a moderator used in nuclear reactors? — In order to slow down the speed of neutron	85. When light passes from air into glass it experiences change in	which things? - Wavelength and speed
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	92. In an atomic explosion, enormous energy is released why?	- Due to the conversion of mass into energy
94. What will be the best colour(s) for a sun umbrella? - White on top and black on the insid	93. Why is a moderator used in nuclear reactors?	- In order to slow down the speed of neutrons
•	94. What will be the best colour(s) for a sun umbrella?	– White on top and black on the inside
95. How should a man wearing spectacles work with a microscope? — He should keep on wearing spectacles	95. How should a man wearing spectacles work with a microscope	? - He should keep on wearing spectacles
96. What does the emission of β-particle? - Increases the atomic number by on	96. What does the emission of β-particle?	– Increases the atomic number by one
97. On which does Kinetic Energy depend? —Both mass and velocity of the moving bod	97. On which does Kinetic Energy depend?	-Both mass and velocity of the moving body
98. Which are the discovery of Einstein? — Theory of relativity and photoelectric effects	98. Which are the discovery of Einstein?	- Theory of relativity and photoelectric effect
99. When does Super conductivity result? — When matter is cooled to very low temperature.	99. When does Super conductivity result?	When matter is cooled to very low temperature
100. What does a permanent magnet repel? — Diamagnetic substances only	100. What does a permanent magnet repel?	– Diamagnetic substances only