

Physics

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 perspiration evaporates rapidly
17. Why are Clear nights cooler than cloudy nights? – Because of radiation
18. In which transmission are sound and video signals transmitted simultaneously? – T.V. Transmission
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 iron 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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26. Which is the unit of activity of a radioactive source? – Becquerel
27. In a sitar wire which type of vibration is produced? – Stationary transverse
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 receipient of Nobel Prize for the development of Wireless Telegraphy? – Marconi
49. Who laid the foundation of nuclear science in the country? – Homi J. Bhabha
50. What happens to the level of mercury in the barometer tube when it is taken down a coal mine? – It rises

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51. A convex mirror makes a good rear-view mirror for a car. Why? – **It forms erect, reduced images**
52. 'mho' is the unit of which unit? – **Specific resistance**
53. What is the approximate velocity of light per second? – **3×10^8 m**
54. If one wants to throw a cricket ball to the maximum distance, then at which angle should he throw it? – **45°**
55. How are Air-pockets that cause aircrafts to lose altitude suddenly caused? – **Temperature inversions**
56. Which pairs of rays is electromagnetic in nature? – **x-rays and gamma rays**
57. Speed of sound is greater in solids than in liquids? – **Because the solids have high elasticity**
58. Why does a bubble of water shines? – **Because of total internal reflection**
59. With which instrument can a sailor in a submarine see the objects on the surface of sea? – **Periscope**
60. On which principle does Rocket work? – **Conservation of momentum**
61. The hydraulic brakes used in automobiles is a direct application of which law? – **Pascal's law**
62. One horse power is equal to howmany watts? – **746 watts**
63. What is the number of basic units in the International System of Units? – **7**
64. If you swim one km, how many miles do you swim? – **0.62**
65. The pH of water at 25°C is 7. When it is heated to 100°C , then what will be the pH of water? – **Remains same**
66. How can the quantity of water vapour the atmosphere hold increases? – **With increase of temperature**
67. When milk is churned, how does the cream separate from it? – **Due to the centrifugal force**
68. We cannot see during a fog. why? – **Because of scattering of light**
69. In storms, the roofs of some houses are carried away. According whom is this? – **Bernoulli's principle**
70. Why is phenomenon of mirage? – **Due to total internal reflection**
71. Which law is involved in the act of cleaning a carpet by beating it with a stick? – **First law of motion**
72. Which remains constant while throwing a ball upward? – **Acceleration**
73. DC current can be controlled by which component? – **Resistance**
74. Which radiation carries maximum energy? – **Gamma-rays**
75. Which is a good conductor of electricity? – **Human body**

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76. On which conservation law, does a rocker work? – **Angular momentum**
77. What denotes the smallest temperature? – **1° on the Kelvin scale**
78. What is the function of heavy water in a nuclear reactor? – **Slow down the speed of neutrons**
79. Which has the least penetrating power? – **Alpha particles**
80. Which rays are most penetrating? – **γ-rays**
81. The mass-energy relation is the outcome of which theory? – **Special theory of relativity**
82. Recoil of a gun is an example of which thing? – **Conservation of linear momentum**
83. By whom was Neutron discovered? – **Chadwick**
84. Which are the The best and the poorest conductors of heat respectively? – **Silver (Ag), and lead (Pb)**
85. When light passes from air into glass it experiences change in which things? – **Wavelength and speed**
86. The working of optical is based on which of electromagnetic waves? – **Total internal reflection**
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 foot**
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 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**
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 body**
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**
100. What does a permanent magnet repel? – **Diamagnetic substances only**