



100 Important Physics Questions for Competitive Exams

NEET | JEE | SSC | NDA | Railway

Mechanics Questions (1–35)

1. What is the SI unit of force?
Answer: Newton
2. What is the acceleration due to gravity on Earth?
Answer: 9.8 m/s^2
3. What is the unit of work?
Answer: Joule
4. What is momentum?
Answer: Mass \times Velocity
5. What is the SI unit of power?
Answer: Watt
6. What is inertia?
Answer: Resistance to change in motion
7. What is velocity?
Answer: Speed with direction
8. What is kinetic energy formula?
Answer: $KE = \frac{1}{2} mv^2$
9. What is potential energy?
Answer: Energy due to position
10. What is pressure unit?
Answer: Pascal
11. What is Newton's First Law?
Answer: Law of inertia

12. What is impulse?
Answer: Force \times Time
13. What is uniform motion?
Answer: Equal distance in equal time
14. What is non-uniform motion?
Answer: Unequal distance in equal time
15. What is speed?
Answer: Distance/time
16. What is displacement?
Answer: Shortest distance between two points
17. What is work formula?
Answer: $W = F \times d$
18. What is energy?
Answer: Capacity to do work
19. What is mass?
Answer: Quantity of matter
20. What is friction?
Answer: Force opposing motion
21. What is force formula?
Answer: $F = ma$
22. What is acceleration formula?
Answer: $a = (v-u)/t$
23. What is density formula?
Answer: Mass/Volume
24. What is pressure formula?
Answer: Force/Area
25. What is power formula (mechanical)?
Answer: Work/time
26. What is gravitational force unit?
Answer: Newton
27. What is impulse unit?
Answer: Ns
28. What is momentum unit?
Answer: kg·m/s
29. What is work-energy theorem?
Answer: Work = change in KE
30. What is law of conservation of energy?
Answer: Energy cannot be created or destroyed
31. What is mass unit?
Answer: kg
32. What is speed unit?
Answer: m/s
33. What is acceleration unit?
Answer: m/s^2

34. What is heat unit?
Answer: Joule
35. What is efficiency formula?
Answer: $\text{Output/Input} \times 100$
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Electricity & Magnetism Questions (36–70)

36. What is Ohm's Law?
Answer: $V = IR$
37. What is current unit?
Answer: Ampere
38. What is resistance?
Answer: Opposition to current
39. What is voltage?
Answer: Potential difference
40. What is resistance unit?
Answer: Ohm
41. What is electric power formula?
Answer: $P = VI$
42. What is a conductor?
Answer: Allows current
43. What is an insulator?
Answer: Blocks current
44. What is charge unit?
Answer: Coulomb
45. What is series circuit?
Answer: Same current
46. What is parallel circuit?
Answer: Same voltage
47. What is fuse?
Answer: Safety device
48. What is battery?
Answer: Energy source
49. What is capacitance?
Answer: Charge storage ability
50. What is electric field?
Answer: Force per unit charge
51. What is current formula?
Answer: $I = Q/t$
52. What is EMF?
Answer: Energy per charge

53. What is resistor?
Answer: Limits current
54. What is short circuit?
Answer: Low resistance path
55. What is power unit?
Answer: Watt
56. What is resistance formula?
Answer: $R = V/I$
57. What is electric field unit?
Answer: N/C
58. What is magnetic field unit?
Answer: Tesla
59. What is capacitance unit?
Answer: Farad
60. What is EMF unit?
Answer: Volt
61. What is frequency unit?
Answer: Hertz
62. What is period unit?
Answer: Second
63. What is wave speed formula?
Answer: $v = f\lambda$
64. What is frequency formula?
Answer: $1/T$
65. What is sound speed in air?
Answer: 343 m/s
66. What is light speed?
Answer: 3×10^8 m/s
67. What is lens formula?
Answer: $1/f = 1/v + 1/u$
68. What is mirror formula?
Answer: $1/f = 1/v + 1/u$
69. What is heat formula?
Answer: $Q = mc\Delta T$
70. What is power formula (electrical)?
Answer: $P = VI$
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Modern Physics Questions (71–100)

71. Who discovered the electron?
Answer: J.J. Thomson

72. What is photoelectric effect?
Answer: Emission of electrons by light
73. Who proposed atomic model?
Answer: Bohr
74. What is nucleus?
Answer: Center of atom
75. Proton charge?
Answer: Positive
76. Neutron charge?
Answer: Neutral
77. Electron charge?
Answer: Negative
78. What is radioactivity?
Answer: Emission of radiation
79. What is isotope?
Answer: Same element, different mass
80. What is half-life?
Answer: Time for half decay
81. What is fission?
Answer: Splitting nucleus
82. What is fusion?
Answer: Combining nuclei
83. What is photon?
Answer: Particle of light
84. What is Planck constant?
Answer: 6.626×10^{-34} Js
85. What is X-ray?
Answer: High energy radiation
86. What is gamma ray?
Answer: Highest energy radiation
87. What is alpha particle?
Answer: Helium nucleus
88. What is beta particle?
Answer: Electron-like particle
89. What is quantum theory?
Answer: Energy in packets
90. What is energy formula?
Answer: $E = mc^2$
91. What is photon energy formula?
Answer: $E = hv$
92. What is Planck constant value?
Answer: 6.626×10^{-34}
93. What is charge of electron?
Answer: -1.6×10^{-19} C

94. What is proton mass?
Answer: 1.67×10^{-27} kg
95. What is neutron mass?
Answer: 1.67×10^{-27} kg
96. What is atomic number?
Answer: Number of protons
97. What is mass number?
Answer: Protons + neutrons
98. What is nuclear energy?
Answer: Energy from nucleus
99. What is radiation?
Answer: Energy emission
100. What is speed of light unit?
Answer: m/s