

SRM MUTHAMIZHL HR.SEC.SCHOOL – PERIYERI**CLASS: XII****PHYSICS****MARK:**

1. $e \rightarrow 1.6 \times 10^{-19} \text{ C}$
2. $\frac{1}{4\pi\epsilon} = k \rightarrow 9 \times 10^9 \text{ Nm}^2\text{C}^{-2}$
3. $\epsilon_0 \rightarrow 8.85 \times 10^{-12} \text{ C}^2\text{N}^{-1}\text{m}^{-2}$
4. $\epsilon_r \rightarrow 1$
5. $G \rightarrow 6.626 \times 10^{-11} \text{ Nm}^2\text{kg}^{-2}$
6. The OH bond length $0.958 \times 10^{-10} \text{ m}$
7. Dipole moment of H_2O $6.1 \times 10^{-30} \text{ cm}$
8. Conductor electrostatic equilibrium time 10^{-16} s
9. Dielectric strength of mica = $100 \times 10^6 \text{ VM}^{-1}$
10. Dielectric strength of Teflon = $60 \times 10^6 \text{ Vm}^{-1}$
11. Dielectric strength of paper = $16 \times 10^6 \text{ Vm}^{-1}$
12. Dielectric strength of Air = $3 \times 10^6 \text{ Vm}^{-1}$
13. Dielectric strength of Pyrex glass = $14 \times 10^6 \text{ Vm}^{-1}$
14. Output potential difference of van de Graff genera for is = 10^7 V
15. Input potential difference of van de graff genera for is = 10^4 V
16. Resistivity of pure water in 20°C is – $2.5 \times 10^5 \Omega\text{m}$
17. Resistivity of glass in 20°C is – $(10^{10}-10^{14})\Omega\text{m}$
18. Resistivity of hard rubber in 20°C is – $10^{13}-10^{16} \Omega\text{m}$
19. Resistivity of nall in 20°C is – $10^{14} \Omega\text{m}$
20. Resistivity of fused quart in 20°C is = $10^{16} \Omega\text{m}$
21. Resistivity of germanium in 20°C is = $0.46 \Omega\text{m}$
22. Resistivity of silicon in 20°C is = $640 \Omega\text{m}$
23. Resistivity of silver in 20°C is = $1.6 \times 10^8 \Omega\text{m}$
24. Resistivity of copper in 20°C is = $17 \times 10^8 \Omega\text{m}$
25. Resistivity of aluminium in 20°C is – $2.7 \times 10^8 \Omega\text{m}$
26. Resistivity of tungsten in 20°C is – $5.6 \times 10^{-7} \Omega\text{m}$

27. Resistivity of iron in 20°C is = $10 \times 10^{-8} \Omega\text{m}$
28. Gold colour resistance tolerance is = 5%
29. Silver colour resistance tolerance is = 10%
30. Colourless resistance tolerance is = 20%
31. Temperature coefficient of silver is = $3.8 \times 10^{-3}/^{\circ}\text{C}$
32. Temperature coefficient silver is $3.8 \times 10^{-3}/^{\circ}\text{C}$
33. Temperature coefficient copper is $3.9 \times 10^{-3}/^{\circ}\text{C}$
34. Temperature coefficient gold is $3.4 \times 10^{-3}/^{\circ}\text{C}$
35. Temperature coefficient aluminium is $3.9 \times 10^{-3}/^{\circ}\text{C}$
36. Temperature coefficient tungsten is $4.5 \times 10^{-3}/^{\circ}\text{C}$
37. Temperature coefficient iron is $5.0 \times 10^{-3}/^{\circ}\text{C}$
38. Temperature coefficient platinum is $3.92 \times 10^{-3}/^{\circ}\text{C}$
39. Temperature coefficient lead is $3.9 \times 10^{-3}/^{\circ}\text{C}$
40. Temperature coefficient nichrome is $0.4 \times 10^{-3}/^{\circ}\text{C}$
41. Temperature coefficient carbon is $0.5 \times 10^{-3}/^{\circ}\text{C}$
42. Temperature coefficient germanium is $-48 \times 10^{-3}/^{\circ}\text{C}$
43. Temperature coefficient silicon is $-75 \times 10^{-3}/^{\circ}\text{C}$
44. One unit of electrical energy is equal to $1 \text{ KWh} = 1000 \text{ wh} = 1000 \text{ w} \times 3600 \text{ s} = 3.6 \times 10^6 \text{ J}$
45. Molybdenum – nichrome to produce temperatures is to $= 1500^{\circ}\text{C}$
46. Carbon arc furnaces produce temperature up to 3000°C
47. Tungsten filament melting point is 3380°C
48. Magnetic susceptibility of aluminium is 2.3×10^{-5}
49. Magnetic susceptibility of copper is -0.98×10^{-5}
50. Magnetic susceptibility of diamond is -2.2×10^{-5}
51. Magnetic susceptibility of gold is -3.6×10^{-5}
52. Magnetic susceptibility of mercury is -3.2×10^{-5}
53. Magnetic susceptibility of silver is -2.6×10^{-5}

54. Magnetic susceptibility of titanium is 7.06×10^{-5}
55. Magnetic susceptibility of tungsten is $+6.8 \times 10^{-5}$
56. Magnetic susceptibility of CO_2 (1atm) $+2.3 \times 10^{-9}$
57. Magnetic susceptibility of oxygen (1atm)- 2.3×10^{-5}
58. The value of gyro-magnetic ratio is $8.78 \times 10^{10} \text{ c/kg}$
59. The value of Bohr magneton is $9.27 \times 10^{-24} \text{ Am}^2$
60. Gamma rays frequency & wave length range is 10^{20} - 10^{24} & $<10^{-12} \text{ m}$
61. X-ray frequency & wave length range is 10^{17} - 10^{20} & 1nm - 1pm
62. UV frequency & wave length range is 10^{15} - 10^{17} & 400 nm - 1nm
63. Visible frequency & wave length range is 4 - 7.5×10^{14} & 750nm - 400nm
64. Near IR frequency & wave length range is 1×10^{14} - 4×10^{14} & $2.5 \mu\text{m}$ - 750nm
65. IR frequency & wave length range is 10^{13} - 10^{14} & $25\mu \text{ m}$ - $2.5\mu\text{m}$
66. Microwaves frequency & wave length range is 3×10^{11} - 10^{13} & 1mn - $25\mu\text{m}$
67. Radio waves frequency & wave length range is $< 3 \times 10^{11}$ & $> 1\text{mm}$
68. Refractive index of vacuum is **1.00**
69. Refractive index of Air is **1.0003**
70. Refractive index of CO_2 is **1.0005**
71. Refractive index of Ice is **1.31**
72. Refractive index of pure H_2O is **1.33**
73. Refractive index of Ethyl alcohol is **1.36**
74. Refractive index of Quarter is **1.46**
75. Refractive index of Vegetable oil is **1.47**
76. Refractive index of Olive oil is **1.48**
77. Refractive index of Acrylic is **1.49**
78. Refractive index of Table salt **1.51**
79. Refractive index of glass is **1.52**
80. Refractive index of sapphire is **1.77**
81. Refractive index of zircon is **1.92**
82. Refractive index of Cubic zircon is **2.16**

83. Refractive index of diamond is 2.42
84. Refractive index of gallium phosphide is 3.50
85. Refractive index and critical angle of ice is 1.310 & 49.8°
86. Refractive index and critical angle of H₂O is 1.333 & 48.6°
87. Refractive index and critical angle of fused quartz is 1.458 & 43.3°
88. Refractive index and critical angle of crown glass is 1.541 & 40.5°
89. Refractive index and critical angle of flint glass is 1.890 & 31.9°
90. Refractive index and critical angle of calcite is 1.658 & 37.0°
91. Refractive index and critical angle of diamond is 2.417 & 24.4°
92. Refractive index and critical angle of strontium titanate is 2.417 & 24.4°
93. Refractive index and critical angle of rutile is 2.621 & 22.4°
94. Violet colour refractive index in crown & flint glass is 1.533 & 1.663
95. Blue colour refractive index in crown & flint glass is 1.523 & 1.639
96. Yellow colour refractive index in crown & flint glass is 1.517 & 1.627
97. Red colour refractive index in crown & flint glass is 1.515 & 1.622
98. Work function of Cs is 2.14
99. Work function of K is 2.30
100. Work function of Na is 2.75
101. Work function of Ca is 3.20
102. Work function of Mo is 4.17
103. Work function of Pb is 4.25
104. Work function of Al is 4.28
105. Work function of Mg is 4.49
106. Work function of Cu is 4.65
107. Work function of Ag is 4.70
108. Work function of Ni is 5.15
109. Work function of Pt is 5.65

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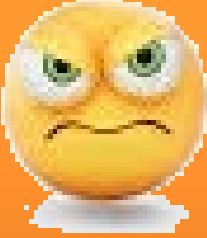


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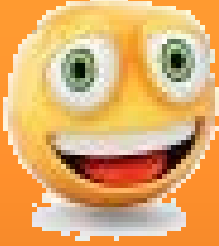


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