

Model Paper

Entrance Test for Ph.D admission in Physics

Time: 90 minutes

[Max. Marks: 100

Choose the correct answer for the following questions.

1. Which of the following is known as Schrodinger equation
A) $E = hv$ B) $E\psi = H\psi$ C) $\lambda = h/p$ D) $E = mc^2$
2. Proton has the charge
A) 1637 times of an electron B) 1737 times of an electron
C) 1837 times of an electron D) 1937 times of an electron
3. In diamond, the coordination number of carbon is ---
A) 4 and its unit cell has 8 carbon atoms.
B) 4 and its unit cell has 6 carbon atoms
C) 6 with 4 carbon atoms in unit cell
D) 4 with 4 carbon atoms in unit cell
4. Which of the following wavelength ranges is associated with UV spectroscopy?
A) 0.8 – 500 μm B) 400 – 100 nm C) 380 – 750 nm D) 0.01 – 10 nm
5. A 10 K Ω resistor in parallel with another 10K Ω resistor produces a resultant resistance equal to ---
A) 10 K Ω B) 100 K Ω C) 20 K Ω D) 5 K Ω

6.

7.

100.

A. N. M. S.
05.3.14

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Revalidated
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