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PHY309

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1. The wavelenth associated with an electron of energy E = 100 eV is equalnto

1.23nm

--->> 12.3 nm

123 nm

None of these

2. Radiation wavelength  $\tilde{A}\check{Z}\hat{A}$ » = 0085 A incident on a carbon target is deflectedn40  $\tilde{A},\hat{A}^{\circ}$ . The wavelength of the radiation deflected equals:

0.085 A

--->> 0.09 A

0.080 A

All of these

3. A mono-energetic electron beam is incident normally on a sheet of aluminumnfoil. On a fluorescent screen placed behind the foil, we observe:

small, scattered bright spots

--->> bright concentric rings

nothing

All of these

4. Bohr atom initially in its ground state makes a transition to its first excitednstate after absorbing a photon. What is the wavelength of the photonnabsorbed?

55 nm

--->> 122 nm

181nm

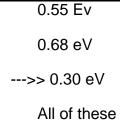
All of these

5. The energy of photon emitted by one atom Bohr making a transition statenwith

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6. If the uncertainty of a proton accelerated in a laboratory is 400 m/s, that ofnits position is:

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--->> 7.88 nm
9.70 nm
112 nm
All of these
```

7. The potential energy of interaction between two static charges is:

proportional to the distance separating the two charges

--->> inversely proportional to the distance separating the two charges

inversely proportional to the square of the distance separating the twoncharges

All of these

8. A neutron beam is incident on a crystalline solid where the distancenbetween Bragg planes is 1.2 A. The energy of the neutron diffracted fromnthe angle of 30 Å,° is equal to:

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--->> 0.057 Ev
0.068 eV
0.07 eV
All of these
```

9. The density of energy radiated by a blackbody in the infrared region isnproportional to:

--->> T

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T4

All of these

10. The largest wavelength of the Balmer series is equal to:

365 nm

--->> 434 nm

175nm

All of these

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