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PHY309
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1. The wavelenth associated with an electron of energy $E=100 \mathrm{eV}$ is equalnto
1.23 nm
--->> 12.3 nm
123 nm
None of these
2. Radiation wavelength $\tilde{A} Z ̌ \hat{A} »=0085$ 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
181 nm
All of these
5. The energy of photon emitted by one atom Bohr making a transition statenwith

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0.55 Ev
0.68 eV
--->> 0.30 eV
All of these
6. If the uncertainty of a proton accelerated in a laboratory is $400 \mathrm{~m} / \mathrm{s}$, that ofnits position is:
--->> 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 $30 \hat{A}, \hat{A}^{\circ}$ is equal to:
--->> 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:

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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

