

1. Ratio of the weight of H-atom to that of an electron is approximately

- [A.](#) 18.336 [B.](#) 1836  
[C.](#) 18360 [D.](#) 183.6

**Answer:** Option B

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2. Photon of highest frequency will be absorbed when transition takes place from

- [A.](#) 1st to 5th orbit [B.](#) 2nd to 5th orbit  
[C.](#) 3rd to 5th orbit [D.](#) 4th to 5th orbit

**Answer:** Option A

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3. In hydrogen spectrum which one of the following series lies in the ultraviolet region?

- [A.](#) Balmer series [B.](#) Pfund series  
[C.](#) Bracket series [D.](#) Lyman series

**Answer:** Option D

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4. In obtaining an X-ray photograph of our hand we use the principle of

- [A.](#) photo electric effect [B.](#) ionization  
[C.](#) shadow photograph [D.](#) any of above

**Answer:** Option C

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5. Excited atoms return to their ground state in

- [A.](#) 10-10s [B.](#) 10-8s  
[C.](#) 10-6s [D.](#) 10-9s

**Answer:** Option B

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6. When we excite some atoms by heat collision or electrical discharge they will

- [A.](#) radiate electromagnetic energy with a continuous distribution of wavelength [B.](#) absorb particular wavelengths when white light is incident on them

- C. radiate electromagnetic energy of discrete characteristic wavelength      D. emit either invisible or visible light

**Answer:** Option c

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7. Hydrogen atom does not emit X-rays because

- A. its energy levels are too close to each other      B. its energy levels are too far apart  
C. it is too small in size      D. it has a single electron

**Answer:** Option D

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8. Which one of following postulate is in accordance with the Rutherfords model?

- A. continuous spectra for atoms      B. discrete spectra for atoms  
C. either continuous nor discrete      D. no spectrum

**Answer:** Option A

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9. X-ray are

- A. of unknown nature      B. high energy electrons  
C. high energy photons      D. radio isotopes

**Answer:** Option c

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