

31. In Davisson-Germer experiment the diffracted proton from crystal shows
- [A.](#) Particle property
  - [B.](#) Wave property
  - [C.](#) Light property
  - [D.](#) Quantum property

**Answer:** Option B

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32. If a diffraction grating is placed in the path of a light beam it reveals
- [A.](#) Wave property
  - [B.](#) Particle property
  - [C.](#) Energy particle
  - [D.](#) Electromagnetic wave property

**Answer:** Option A

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33. In electron microscope we use energetic particles because of
- [A.](#) Penetrating power is high
  - [B.](#) Kinetic energy is large.
  - [C.](#) Wavelength is very short.
  - [D.](#) All the above reasons.

**Answer:** Option C

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34. In electron microscope electric & magnetic fields are used as
- [A.](#) Electromagnetic gun.
  - [B.](#) Source of electromagnetic waves.
  - [C.](#) Deflecting charged particle
  - [D.](#) Converging source of electrons.

**Answer:** Option D

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35. A three dimensional image is obtained by
- [A.](#) Electron microscope
  - [B.](#) Scanning electron microscope
  - [C.](#) Magnetic imaging
  - [D.](#) None of the above

**Answer:** Option B

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36. The uncertainty in momentum & position is due to its

- A. Property of matter and radiation.      B. Two dimensional motion.  
C. Emission of certain wavelength      D. Very high velocity.

**Answer:** Option A

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37. For confinement of electron in a box of radius 10-14m the electron speed should be

- A. 107m/sec      B. Should be greater than speed of light.  
C. Be zero      D. Not be wavelike.

**Answer:** Option B

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38. The energy radiated is directly proportional to fourth power of Kelvins temperature is

- A. Karl-weins law      B. Rayleigh Jeans law.  
C. Stephens law.      D. Plancks

**Answer:** Option C

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39. Compton effect proves the

- A. Photon theory of light      B. Dual nature of light  
C. Wave nature of light      D. Uncertain nature of light

**Answer:** Option A

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40. Electron moves in the orbit as

- A. Simple vibratory motion.      B. Standing wave motion.  
C. Vibratory motion like up and down.      D. S.H.M like sound.

**Answer:** Option B

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