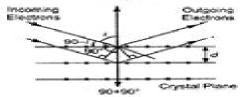
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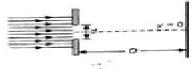
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Fill Directions: Questions No. 1, 2 and 3 are based on the following paragraph.

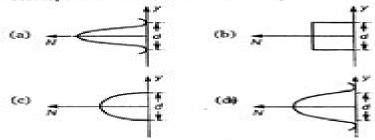
Wave property of electrons implies that they will show diffraction effects. Davisson and Germer demonstrated this by diffracting electrons from crystals. The law governing the diffraction from a crystal is obtained by requiring that electron waves reflected from the planes of atoms in a crystal interfere constructively (see figure).



- 1. Electrons accelerated by potential V are diffracted from a crystal. If d=1 Å and i=30°, V should be about  $(h=6.6\times10^{-34} \text{ J-s})$ ,  $m_c=9.1\times10^{-31} \text{ kg}$ ,  $c=1.6\times10^{-19} \text{ C}$ 
  - (a) 2000 V (b) 50 V (c) 500 V (d) 1000 V
- If a strong diffraction peak is observed when electrons are incident at an angle i from the normal to the crystal planes with distance d between them (see figure), de-Broglie wavelength λ<sub>48</sub> of electrons can be calculated by the relationship (n is an integer)
  - (a)  $d \sin i = n\lambda_{dS}$  (b)  $2d \cos i = n\lambda_{dS}$
  - (c)  $2d \sin i = n\lambda_{d0}$  (d)  $d \cos i = n\lambda_{d0}$
- In an experiment, electrons are made to pass through a narrow slit of width d comparable to their de-Broglie wavelength. They are detected on a screen at a distance D from the slit (see figure).



Which of the following graphs can be expected to represent the number of electrons N detected as a function of the detector position y (y = 0) corresponds to the middle of the slit)?



- 4. A planet in a distant solar system is 10 times more massive than the earth and its radius is 10 times smaller. Given that the escape velocity from the earth is 11 kms<sup>-1</sup>, the escape velocity from the surface of the planet would be
  - (a)  $1.1 \text{ km s}^{-1}$
- (b) 11 km s<sup>-1</sup>
- (c) 110 km s<sup>-1</sup>
- (d)  $0.11 \text{ km s}^{-1}$

# Aieee 2008 Answer Key

## **Arturo Cuomo**



#### Reviewing Aieee 2008 Answer Key: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "Aieee 2008 Answer Key," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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