

QUESTION 12

- (a)
- The number of photoelectrons emitted per second is directly proportional to the intensity of radiation.
 - The energy of the emitted electrons depend on the frequency of the incident radiation.
 - There exists a threshold frequency for all surfaces, below which no electrons are emitted no matter the intensity of radiation.

(b) Given: Power of source = 6×10^{-3} Watts or Joules / s
 No of photons per second = 1×10^{16}

$$\text{Energy per photon} = \frac{\text{Power}}{\text{no of photons per second}}$$

$$= \frac{6 \times 10^{-3}}{1 \times 10^{16}}$$

$$E = hf = 6 \times 10^{-19} \text{ Joules}$$

Energy = $hf - W_0 = eV_0$ where W_0 is work function.
 $E - eV_0 = W_0$ where V_0 is stopping potential

$$6 \times 10^{-19} - (1.6 \times 10^{-19}) \times (2.2) = W_0$$

$$6 \times 10^{-19} - 3.52 \times 10^{-19} = W_0$$

$$W_0 = 2.48 \times 10^{-19} \text{ Joules}$$

$$W_0 = \frac{2.48 \times 10^{-19}}{1.6 \times 10^{-19}} \text{ eV}$$

$$W_0 = 1.55 \text{ eV}$$

2014 2015 Physics Obj Answer

Christian Drosten



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Proceedings of the Regional Conference on Science, Technology and Social Sciences (RCSTSS 2016) Mohd Yusri Mohamad Noor,Badli Esham Ahmad,Mohd Rozaidi Ismail,Hasnizawati Hashim,Mohd Amli Abdullah Baharum,2018-07-20 This book features papers addressing a broad range of topics including psychology religious studies natural heritage accounting business communication education and sustainable development It serves as a platform for disseminating research findings by academicians of local regional and global prominence and acts as a catalyst to inspire positive innovations in the development of the region It is also a significant point of reference for academicians and students This collection of selected social sciences papers is based on the theme Soaring Towards Research Excellence presented at the Regional Conference of Sciences Technology and Social Sciences RCSTSS 2016 organised bi annually by Universiti Teknologi MARA Cawangan Pahang Malaysia **Oswaal NTA CUET (UG) Question Banks | Chapterwise & Topicwise | English, Physics, Chemistry, Math & General Test | Set of 5 Books | Entrance Exam Preparation Books 2024** Oswaal Editorial Board,2024-03-08 Description of the Product 100% Exam Ready With 2023 CUET UG Exam Papers Fully Solved with Explanations Concept Clarity With Revision Notes Chapter Analysis with updated pattern Extensive Practice With 800 Practice Questions of Previous Years 2021 2023 Fill Learning Gaps with Smart Mind Maps Concept Videos Valuable Exam Insights With Tips Tricks to ace CUET UG in 1st Attempt *Cracking IAS Prelims Revision Files - Quizzes & Practice Tests Paper 1 & 2 (Vol. 9/9)* Disha Experts,2019-04-21 Cracking IAS Prelims Revision Files Quizzes Practice Tests Paper 1 2 Vol 9 9 is the 1st ebook of a series of 9 eBooks specially prepared to help IAS aspirants cross the milestone of Preliminary Exam The ebook is aimed at Revision cum practice so as to develop confidence to crack the IAS Prelim Exam The eBook is divided into 3 Topics Each topic provides 5 6 Revision Modules ensuring complete revision of the topic Thus in all around 15 such Modules are provided Each topic will end up with a Quiz containing 15 questions to test your topic preparedness Further Solved Questions of the last 5 years on Quizzes Practice Tests Paper 1 2are also provided In the end 2 Tests are provided on Quizzes Practice Tests Paper 1 2to test your revision of the entire section This ebook along with the 8 other ebooks of this series will definitely help you improve your score in the IAS Prelim Exam **Oswaal NTA CUET (UG) Question Banks | Chapterwise & Topicwise | English, Physics, Chemistry, Biology & General Test | Set of 5 Books | Entrance Exam Preparation Books 2024** Oswaal Editorial Board,2024-03-08 Description of the Product 100% Exam Ready With 2023 CUET UG Exam Papers Fully Solved with Explanations Concept Clarity With Revision Notes Chapter Analysis with updated pattern Extensive Practice With 800 Practice Questions of Previous Years 2021 2023 Fill Learning Gaps with Smart Mind Maps Concept Videos Valuable Exam Insights With Tips Tricks to ace CUET UG in 1st Attempt **10 in One Study Package for CBSE Science Class 9 with Objective Questions 2nd Edition** Disha Experts,2019-07-02 10 in ONE CBSE Study Package Science Class 9 with Objective Questions has 10 key ingredients that will help you achieve success 1 Chapter

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