

PHYSICS

TARGET : JEE- Advanced 2021

CAPS-17

Nuclear Physics

SCQ (Single Correct Type) :

1. Nuclei of radioactive element A are produced at rate ' P ' at any time t . The element A has decay constant λ . Let N be the number of nuclei of element A at any time t . At time $t = t_0$ $\frac{dN}{dt}$ is minimum. Then the number of nuclei of element A at time $t = t_0$ is
 (A) $\frac{\lambda t_0^2 - 2t_0}{\lambda^2}$ (B) $\frac{t_0 - \lambda t_0^2}{\lambda^2}$ (C) $\frac{2t_0 - \lambda t_0^2}{\lambda}$ (D) None of these
2. A radioactive sample decays by β -emission. In first two seconds ' n ' β -particles are emitted and in next 2 seconds, ' $0.25n$ ' β -particles are emitted. The half life of radioactive nuclei is
 (A) 2 sec (B) 4 sec (C) 1 sec (D) none
3. A factory produces a radionuclide at a constant rate R . Initially there were no nuclide present. Then activity of the sample produced by factory just after an average life of nuclide passes away is :
 (A) R (B) Re^{-1} (C) $R(1 - e^{-1})$ (D) $\frac{R}{2} (1 - e^{-1})$
4. A radionuclide with decay constant λ is produced in a reactor at a constant rate α nuclei per second. During each decay energy E_0 MeV is released. If the production of radio nuclides started at $t = 0$, total energy released upto time t is given by equation
 (A) $E_0 \alpha (1 - e^{-\lambda t})$ (B) $E_0 \frac{\alpha}{\lambda} (1 - e^{-\lambda t})$ (C) $E_0 (\alpha t - \frac{\alpha}{\lambda} e^{-\lambda t})$ (D) $E_0 \left(\alpha t - \frac{\alpha}{\lambda} (1 - e^{-\lambda t}) \right)$
5. The count rate observed from a radioactive source at ' t ' second was N_0 and at $4t$ second it was $\frac{N_0}{16}$. The count rate observed, at $\left(\frac{11}{2}\right)t$ second will be
 (A) $\frac{N_0}{128}$ (B) $\frac{N_0}{64}$ (C) $\frac{N_0}{32}$ (D) None of these
6. The count rate from 100 cm^3 of a radio-active liquid is C . Some of this liquid is now discarded. The count rate of the remaining liquid is found to be $C/10$ after three half-lives. The volume of the remaining liquid in cm^3 is
 (A) 20 (B) 40 (C) 60 (D) 80

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Daniel F McAuley



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Table of Contents Grade 1exam Papers Physics Caps Exemplar

1. Understanding the eBook Grade 1exam Papers Physics Caps Exemplar
 - The Rise of Digital Reading Grade 1exam Papers Physics Caps Exemplar
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 1exam Papers Physics Caps Exemplar
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Grade 1exam Papers Physics Caps Exemplar
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 1exam Papers Physics Caps Exemplar
 - Personalized Recommendations
 - Grade 1exam Papers Physics Caps Exemplar User Reviews and Ratings
 - Grade 1exam Papers Physics Caps Exemplar and Bestseller Lists
5. Accessing Grade 1exam Papers Physics Caps Exemplar Free and Paid eBooks
 - Grade 1exam Papers Physics Caps Exemplar Public Domain eBooks
 - Grade 1exam Papers Physics Caps Exemplar eBook Subscription Services
 - Grade 1exam Papers Physics Caps Exemplar Budget-Friendly Options
6. Navigating Grade 1exam Papers Physics Caps Exemplar eBook Formats

- ePub, PDF, MOBI, and More
 - Grade 1exam Papers Physics Caps Exemplar Compatibility with Devices
 - Grade 1exam Papers Physics Caps Exemplar Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 1exam Papers Physics Caps Exemplar
 - Highlighting and Note-Taking Grade 1exam Papers Physics Caps Exemplar
 - Interactive Elements Grade 1exam Papers Physics Caps Exemplar
 8. Staying Engaged with Grade 1exam Papers Physics Caps Exemplar
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 1exam Papers Physics Caps Exemplar
 9. Balancing eBooks and Physical Books Grade 1exam Papers Physics Caps Exemplar
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 1exam Papers Physics Caps Exemplar
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Grade 1exam Papers Physics Caps Exemplar
 - Setting Reading Goals Grade 1exam Papers Physics Caps Exemplar
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Grade 1exam Papers Physics Caps Exemplar
 - Fact-Checking eBook Content of Grade 1exam Papers Physics Caps Exemplar
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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