TARGET: JEE- Advanced 2021

SCQ (Single Correct Type):

Nuclei of radioactive element A are produced at rate 't' at any time t. The element A has 1. decay constant). 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)
$$\frac{\mathbf{t}_0 - \lambda \mathbf{t}_0^2}{\lambda^2}$$

(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
- A factory produces a radionuclide at a constant rate R. Initially there were no nuclide present. 3. Then activity of the sample produced by factory just after an average life of nuclide passes away is:
 - (A) R

(B) Re*

- (C) $R(1-e^{-t})$ (D) $\frac{R}{2}(1-e^{-t})$
- 4. A radionuclide with decay constant 3, is produced in a reactor at a constant rate \alpha nuclei per second. During each decay energy E_o MeV is released. If the production of radio nuclides started at t = 0, total energy released upto time t is given by equation

- (A) $E_{0} \propto (1 e^{-\lambda t})$ (B) $E_{0} \frac{\alpha}{\lambda} (1 e^{-\lambda t})$ (C) $E_{0} (\alpha t \frac{\alpha}{\lambda} e^{-\lambda t})$ (D) $E_{0} \left[\alpha t \frac{\alpha}{\lambda} (1 e^{-\lambda t}) \right]$
- The count rate observed from a radioactive source at 't' second was No and at 4t second it 5. was $\frac{N_{\rm o}}{16}$. The count rate observed, at $\left(\frac{11}{2}\right)t$ second will be
 - (A) No

- (B) $\frac{N_o}{l}$ (C) $\frac{N_o}{l}$

- (D) None of these
- 6. The count rate from 100 cm3 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 cm3 is
 - (A) 20

(B) 40

(C) 60

(D) 80

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