

Section A: Structured Questions (Max 65 marks)

Q1. - Assumptions: random motion, negligible volume, elastic collisions [2] - $p = 1/3 \rho c^2$ derivation (correct method & steps) [3]

Q2. - $\tau = RC = 2200e-6 \times 100 = 0.22 \text{ s}$ [1] - $E = \frac{1}{2}CV^2$, initial = 0.396 J; energy after 0.1 s = $E \times (1 - e^{-2t/RC})$ [3] - Diagram: exponential decay of V or Q [1]

Q3. - From graph: $E = -\Delta W/\Delta x$, correctly taken [2] - Electron accelerates toward higher V [2] - Reversed field: path reverses or decelerates [2]

Q4. - $E = -GMm/2r$; calculate for both radii [2] - $\Delta E = E_2 - E_1$ [2] - Work from thrusters increases KE [2]

Q5. - $\Delta m = (2.014 + 3.016 - 4.002) \text{ u} = 1.028 \text{ u}$ [1] - $E = \Delta m \times 931.5 = -95.7 \text{ MeV}$ [1] - Coulomb repulsion = barrier to overcome [1]

Q6. - $r = mv/qB$ [2] - Radius $\propto mv/B$: increases with speed/mass [2] - Correct spiral/arc labelled B, v, F [1]

Q7. - Sketch: straight line, negative gradient [2] - Gradient = $-\lambda = -0.25 \rightarrow \lambda = 0.25$ [1] - $T\lambda = \ln 2/\lambda = -2.77$ [1] - Real source: shielding, short exposure [1]

Q8. - Shape: $1/r$ potential fall [1] - $\Delta V = GM(1/r_1 - 1/r_2) \times m$ [2] - Equipotential = constant V = no work [2]

Q9. - $EMF = NAB\omega = 100 \times 0.01 \times 0.15 \times 2\pi \times 50 = -4.7 \text{ V}$ [2] - Graph: flux = $\sin(\omega t)$; EMF = cosine, 90° ahead [2] - Explanation of phase shift [1]

Q10. - Derive from $F_e = F_m \rightarrow Eq = Bqv \rightarrow v = E/B$ [2] - If $v \neq E/B$, particle deflects (up/down) [2]

Q11. - $EMF = Blv$; $v = \sqrt{2gh}$ [3] - Lenz's law + direction shown (left/right) [2]

Q12. - Q constant, V \uparrow , E \uparrow , U \uparrow [3] - Energy comes from external work [2]

Q13. - Field lines: curved, point + to - [2] - Use $E = kQ/r^2$ for each, add vectorially [2] - Net force = direction toward -3Q [1]

Q14. - Short $T\lambda =$ low dose, quick decay [2] - Effective = combo of physical and biological [2]

Q15. - $KE = GMm/2r$ [2] - $PE \text{ lost} = GMm(1/r_1 - 1/r_2)$; compare with KE [2] - Loss due to friction/drag [1]

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