

SACE Board 2018 Examination – Unofficial Answers

Answers are not the official set of solutions used by the examiners of the SACE Board of South Australia

1.

$$W = \frac{1}{2} I \omega^2$$

$$W = 10 \times 10^{-3} \times 40^2$$

$$W = 1.6 \times 10^2 \text{ J}$$

$$W = 1.6 \times 10^2 \text{ J}$$

2.

$$\text{The Change in energy between levels} = 12.75 \text{ eV} = 2.04 \times 10^{-18} \text{ J}$$

$$E = hf = \frac{hc}{\lambda}$$

$$f = \frac{2.04 \times 10^{-18}}{6.63 \times 10^{-34}} = 3.1 \times 10^{16} \text{ Hz}$$

Part (a) and (b)



(a)

(b)

3. (a) The potential difference does work on the electron given by $W = qV$. The maximum energy of the γ -rays results from a complete energy conversion of $W = qV$ into energy of a photon.

$$E = hf$$

$$\text{Hence } qV = hf_{\text{max}} = hf_{\text{min}} = \frac{hc}{\lambda_{\text{min}}}$$

(b)

$$f_{\text{min}} = \frac{hc}{\lambda_{\text{min}}} = \frac{1.99 \times 10^{-25} \times 3.0 \times 10^8}{6.63 \times 10^{-34}} = 9.2 \times 10^{16} \text{ Hz}$$

$$c = f\lambda \Rightarrow \lambda = \frac{c}{f}$$

$$\lambda = \frac{3.0 \times 10^8}{9.2 \times 10^{16}} = 3.3 \times 10^{-9} \text{ m}$$

4. (a) The electric field produces a force which acts on the proton. This force accelerates the proton, increasing its speed, and hence increases its kinetic energy as $E_k = \frac{1}{2}mv^2$. (b) The electric field does work on the proton. This work increases the kinetic energy of the proton as work is equivalent to a change in energy.

(c) (i)

$$F = \frac{q_1q_2}{4\pi\epsilon_0 r^2} = \frac{1.6 \times 1.6 \times 10^{-19} \times 10^{-19}}{4\pi \times 8.85 \times 10^{-12} \times 1.1^2} = 1.8 \times 10^{-27} \text{ N}$$

(ii)

$$E_p = \frac{kq_1q_2}{r} \Rightarrow r = \frac{kq_1q_2}{E_p}$$

$$r = \frac{2 \times 1.6 \times 10^{-19} \times 1.6 \times 10^{-19}}{0.4 \times 10^{-19} \times 9 \times 10^9}$$

$$r = 0.576 \text{ m}$$

5. Sharp points produce a strong electric field. Polar molecules at the air are attracted to the sharp points, and as electron transfer occurs. The molecules is then ionized, and undergoes collisions with other molecules, producing further charge transfer and causes the air.

$$6. \Delta x = \Delta x_1 - \Delta x_2$$



7.

(a) Start up

$$\frac{F_1}{F_2} = \frac{m_1}{m_2} \Rightarrow m_1 = m_2 \frac{F_1}{F_2}$$

$$m_1 = 2000 \frac{2.75 \times 10^3}{1.50 \times 10^3} = 3700 \text{ kg}$$

(b) Acceleration always forces over long distances

8. (a) (i) The magnetic field causes a force to act at right angles to the velocity of the electron. Therefore, the resulting acceleration causes a change in direction but not a change in speed – centripetal acceleration. Hence the force is constant the electron undergoes uniform circular motion.

(ii)

$$F = \frac{mv^2}{r}$$

$$\Rightarrow r = \frac{mv^2}{F} = \frac{9.1 \times 10^{-31} \times 5.79 \times 10^6}{1.6 \times 10^{-17}}$$

$$r = 3.30 \times 10^{-8} \text{ m}$$

(b) (i) As the charged particle interacts with particles in the liquid medium, a resistive force acts on the charged particle. This decreases the speed of the charged particle, causing it to spiral inwards as

$$r = \frac{mv^2}{qB}$$

(ii) However, initially the force acting on the electron is directed downwards.

$$\text{Or since } \frac{mv^2}{r} \text{ is much smaller for the electron than the alpha particle it will have a smaller radius as}$$

$$r = \frac{mv^2}{qB}$$

$$9. \frac{1}{3} \times 10^3 - \frac{1}{3} \times 10^3 = \frac{2}{3} \times 10^3 = 6.67 \times 10^2 \text{ N. The SI implies we are not always}$$

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Paul W Zitzewitz



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