Answers to EOC questions

CAR

Chapter 32

 a Radiation that can cause ionisation of the air (or of any other material it passes through).

> It is likely to have sufficient energy to cause damage to DNA and hence cell mutation. [1]

b X-ray shadow imaging, CAT scan [1]

2 Minimum wavelength = $\frac{\hbar v_c}{E}$ [1] = $\frac{6.63 \times 10^{-24} \times 3 \times 10^{6}}{20000 \times 1.6 \times 10^{-10}}$ = 6.2×10^{-11} m [1]

- 3 There is a large difference between the acoustic impedance of air and skin.
 Consequently, a very large percentage of the ultrasound is reflected. [1]
 The gel is used to match the impedances. [1]
- 4 $\frac{I_c}{I_0} = \frac{(Z_2 Z_1)^2}{(Z_2 + Z_1)^2}$ $= \frac{(1.78 1.63)^2}{(1.78 + 1.63)^2}$ = 0.0019 = 0.19%[1]
- 5 Wavelength = speed | 5200 | 0.0065 m | [1] 10

Optimum thickness is half this, i.e. 3.25×10^{-3} m $\approx 3.3 \times 10^{-3}$ m [1]

- 6 The angular frequency (or velocity) of the precession of a proton's magnetic axis around the direction of the applied field. [1
- 7 Large (relatively) exposure of patient to the ionising radiation with consequent risks [1] Expensive, because sophisticated equipment is required [1]
- 8 a Diagram showing basic tube with cathode, anode (target) [1]
 Cathode, anode, vacuum labelled / referred to elsewhere [1]
 High potential (50 kV or more) between anode and cathode [1]
 Reference to material for anode / reference to cooling of anode [1]
 Reference to acceleration of electrons across the tube [1]

- b Electric potential energy

 → kinetic energy of electrons [1]

 → internal energy on collision with anode [1]

 plus X-radiation [1]
- a i Peaks are formed by excitation of an inner electron in an atom to a higher level. [1] Energy is given out when it drops back to ground state. [1]
 - ii Band is produced by many interactions, [1] each absorbing different energies. [1]
- b i Low-energy X-rays are absorbed by flesh [1] so do not contribute to the overall picture.
 [1]

Filtering these rays reduces the patient's overall exposure to radiation. [1]

- ii Aluminium absorbs these low-energy X-rays. [1]
- c Use of 115 keV [1] E = hf leading to $f = \frac{115 \times 10^{1} \times 1.6 \times 10^{-15}}{6.63 \times 10^{-25}}$ [1] $= 2.78 \times 10^{16} \approx 2.8 \times 10^{16} \text{ Hz}$ [1]
- a Any 5 points for [5] marks:

The patient lies in a vertical ring of X-ray detectors and the X-ray tube rotates around the ring. [1] The body part is split up into tiny cubes

called voxels. [1] A voxel is a unit of graphic information that defines a point in three-dimensional space.

Slices through the body are viewed. [1]
The computer combines slices to build up a three-dimensional image of the patient. [1]
Images of 'slices' through the patient are shown on the computer screen. [1]
A traditional X-ray picture is formed by absorption. [1]

Denser materials absorb more than less dense materials, producing a shadow image.

b CAT gives a better contrast of soft tissues. [1] MRI gives better image of dense tissue such as bone. [1]

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Daniela Niemeyer

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Table of Contents Physics Chapter 32 Review Questions Page 515 Answers

- 1. Understanding the eBook Physics Chapter 32 Review Questions Page 515 Answers
 - The Rise of Digital Reading Physics Chapter 32 Review Questions Page 515 Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Physics Chapter 32 Review Questions Page 515 Answers
 - 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 Physics Chapter 32 Review Questions Page 515 Answers
 - User-Friendly Interface

- 4. Exploring eBook Recommendations from Physics Chapter 32 Review Questions Page 515 Answers
 - Personalized Recommendations
 - Physics Chapter 32 Review Questions Page 515 Answers User Reviews and Ratings
 - Physics Chapter 32 Review Questions Page 515 Answers and Bestseller Lists
- 5. Accessing Physics Chapter 32 Review Questions Page 515 Answers Free and Paid eBooks
 - Physics Chapter 32 Review Questions Page 515 Answers Public Domain eBooks
 - Physics Chapter 32 Review Questions Page 515 Answers eBook Subscription Services
 - Physics Chapter 32 Review Questions Page 515 Answers Budget-Friendly Options
- 6. Navigating Physics Chapter 32 Review Questions Page 515 Answers eBook Formats
 - o ePub, PDF, MOBI, and More
 - Physics Chapter 32 Review Questions Page 515 Answers Compatibility with Devices
 - Physics Chapter 32 Review Questions Page 515 Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Physics Chapter 32 Review Questions Page 515 Answers
 - o Highlighting and Note-Taking Physics Chapter 32 Review Questions Page 515 Answers
 - Interactive Elements Physics Chapter 32 Review Questions Page 515 Answers
- 8. Staying Engaged with Physics Chapter 32 Review Questions Page 515 Answers
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics Chapter 32 Review Questions Page 515 Answers
- 9. Balancing eBooks and Physical Books Physics Chapter 32 Review Questions Page 515 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics Chapter 32 Review Questions Page 515 Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physics Chapter 32 Review Questions Page 515 Answers
 - Setting Reading Goals Physics Chapter 32 Review Questions Page 515 Answers
 - Carving Out Dedicated Reading Time

- 12. Sourcing Reliable Information of Physics Chapter 32 Review Questions Page 515 Answers
 - Fact-Checking eBook Content of Physics Chapter 32 Review Questions Page 515 Answers
 - 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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