

Answers to EOC questions

Chapter 32

- 1 a Radiation that can cause ionisation of the air (or of any other material it passes through). [1]
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 = $\frac{hc}{E}$ [1]
 $= \frac{6.63 \times 10^{-34} \times 3 \times 10^8}{20000 \times 1.6 \times 10^{-19}} = 6.2 \times 10^{-11} \text{ m}$ [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 $\frac{I_r}{I_o} = \frac{(Z_2 - Z_1)^2}{(Z_2 + Z_1)^2}$ [1]
 $= \frac{(1.78 - 1.63)^2}{(1.78 + 1.63)^2}$ [1]
 $= 0.0019 = 0.19\%$ [1]
- 5 Wavelength = $\frac{\text{speed}}{\text{frequency}} = \frac{5200}{800000} = 0.0065 \text{ m}$ [1]
Optimum thickness is half this, i.e. $3.25 \times 10^{-3} \text{ m} \approx 3.3 \times 10^{-3} \text{ m}$ [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 [1]
→ kinetic energy of electrons [1]
→ internal energy on collision with anode plus X-radiation [1]
- 9 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, each absorbing different energies. [1]
b i Low-energy X-rays are absorbed by flesh 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
 $f = \frac{115 \times 10^3 \times 1.6 \times 10^{-19}}{6.63 \times 10^{-34}} = 2.78 \times 10^{25} \approx 2.8 \times 10^{25} \text{ Hz}$ [1]
- 10 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. [1]
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. [1]
b CAT gives a better contrast of soft tissues. [1]
MRI gives better image of dense tissue such as bone. [1]

Physics Chapter 32 Review Questions Page 515 Answers

Victor M. Corman



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Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Physics Chapter 32 Review Questions Page 515 Answers**

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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
 - 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
 - Adjustable Fonts and Text Sizes of Physics Chapter 32 Review Questions Page 515 Answers
 - 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
 - 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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