

QUESTION 1

- 1.1 A ✓✓
1.2 D ✓✓
1.3 C ✓✓
1.4 B ✓✓
1.5 C ✓✓
1.6 B ✓✓
1.7 C ✓✓

[14]

QUESTION 2

- 2.1 If a net force acts on a body the body accelerates in the direction of the net force. ✓✓
The acceleration is directly proportional to the net force and inversely proportional to the mass of the body. ✓✓

2.2



- ✓ (force)
✓ (any 2 correct)
✓ (either 2 correct) (2)

2.3 $F_g = mg$ ✓

$$= (0,0470 \text{ kg})(9,81 \text{ m/s}^2)$$

$$= 0,461 \text{ N} \quad (2)$$

2.4 $F_{\text{net}} = ma$ ✓

$$T + (F_g) = (0,470) = ma$$

$$(0) - (0,461) + 9,81 \text{ m/s}^2 = 2a \quad (1)$$

$$a = 21,8 = 2a$$

$$F_{\text{net}} = ma$$

$$F_{\text{net}} + (F_g) + (F_N) + (F_T) = ma$$

$$21,8 - 20 - (0,461) + 9,81 \text{ m/s}^2 - T = 4a \quad (2)$$

$$21,8 - T = 4a$$

$$2T - 21,8 = 21,8 - T \quad (3) \quad (\text{Manipulation and equating})$$

$$T = 24,4 \text{ N} \quad (4)$$

[14]

QUESTION 3

- 3.1 In an isolated system the total linear momentum remains constant in both magnitude and direction. ✓✓ (2)

3.2 sum of p before = sum of p after

$$m_1 u_1 + m_2 u_2 = m_1 v_1 + m_2 v_2 \quad (1)$$

$$(140)(10) + (140)(0) = (140 + 140)(v_f) \quad (2)$$

$$v_f = 5,0 \text{ m/s} \quad (3)$$

3.3 $\Delta p = \Delta p_1$ ✓

$$\Delta p_1 = \Delta p_2 = \Delta p_3$$

$$= (140)(4,5) - (140)(0) \quad (4)$$

$$= 630 \text{ N} \cdot \text{s} \quad (5)$$

[15]

QUESTION 4

4.1 The work done by a conservative force is not path dependent. ✓✓ (2)

4.2 Force of gravity ✓✓ (2)

4.3 The net work done on an object is equal to its change in kinetic energy. ✓✓ (2)

The work done on an object by the net force is equal to its change in kinetic energy.

4.4 $W_{\text{net}} = \Delta K$ ✓

$$W_{\text{spring}} + W_{\text{grav}} + W_{\text{net}} = \Delta K = \frac{1}{2}mv^2 - \frac{1}{2}mv^2$$

$$277 \text{ J} + 0 + F_{\text{spring}} \Delta x_{\text{spring}} + F_{\text{net}} \Delta x_{\text{net}} = \frac{1}{2}(3000)(10)^2 - \frac{1}{2}(3000)(0)^2 \quad (1)$$

$$277 \text{ J} + 0 + (3000)(9,81 \text{ m/s}^2)(\Delta x_{\text{spring}}) + 0 = 25455 \text{ J} \quad (2)$$

$$277 \text{ J} + 0 + 14700 \Delta x_{\text{spring}} - 25455 \text{ J} = 0 \quad (3)$$

$$\Delta x_{\text{spring}} = 1,73 \text{ m} \quad (4)$$

4.5 $F = \frac{\Delta p}{\Delta t} = \frac{1000 \text{ kg} \cdot \text{m/s}}{0,1 \text{ s}} = 10000 \text{ N} \quad (2)$

[14]

QUESTION 5

5.1



✓ (F_g smaller in length than F_{spring}) (2)

5.1.1 $m = m_1 + m_2$ ✓ or $\Delta p = m \Delta v = \frac{1}{2}mv^2$ ✓ or $u^2 = v^2 + 2ay$ ✓

$$112,8 = 0 + a(2)^2 \quad (1)$$

$$a = 14,1 \text{ m/s}^2 \quad (2)$$

5.1.2 $\Delta p = m \Delta v = \frac{1}{2}mv^2$ ✓

$$-225,6 = 112,8a + \frac{1}{2}(112,8)v^2 \quad (3)$$

$$4,50v^2 - 225,6a - 225,6 = 0$$

$$\Delta t = 24,87 \text{ s} \quad (4)$$

$$\Delta x_{\text{net}} = 24,87 \text{ s} + 4 = 28,87 \text{ s} \quad (5) \quad (\text{for adding } + 4) \quad (2)$$

5.2



- ✓ (area labelled correctly)
✓ (all v and dt values correctly)
✓ (shape first 4 s)
✓ (shape 4 s to 28,87 s) (2)

[14]

QUESTION 6

6.1 The Doppler effect ✓✓ (2)

6.2 $\Delta f = \frac{v}{\lambda}$ The observed frequency is higher than the actual frequency. ✓✓ (2)

$$\Delta f = \frac{v}{\lambda} \quad (1)$$

$$\Delta f = \frac{v}{\lambda} \quad (2)$$

$$140 = \frac{340}{\lambda} \quad (3)$$

$$140 = \frac{340}{\lambda} \quad (4)$$

$$140 = \frac{340}{\lambda} \quad (5)$$

$$v = 219,41 \text{ m/s} \quad (6)$$

[15]

QUESTION 7

7.1 The electrostatic force between two charges is directly proportional to the product of the charges and inversely proportional to the squared distance between the charges. ✓✓ (2)

$$F = \frac{kq_1q_2}{r^2} \quad (1)$$

$$= \frac{9 \times 10^9 \times 1,6 \times 10^{-19} \times 1,6 \times 10^{-19}}{(0,001)^2}$$

$$= 2,3 \times 10^{-14} \text{ N} \quad (2)$$

$$7.2.1 F = \frac{kq_1q_2}{r^2} \quad (1)$$

$$F = \frac{9 \times 10^9 \times 1,6 \times 10^{-19} \times 1,6 \times 10^{-19}}{(0,001)^2}$$

$$= 2,3 \times 10^{-14} \text{ N} \quad (2)$$

$$7.2.2 F = \frac{kq_1q_2}{r^2} \quad (1)$$

$$= 2,3 \times 10^{-14} \text{ N} \quad (2)$$

$$7.2.3 F_{\text{net}} = 40,000 \text{ N} + 40,000 \text{ N} \quad (1)$$

$$F_{\text{net}} = 40,000 \text{ N} + 40,000 \text{ N} \quad (2)$$

[15]

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Daily Graphic Kingsley Inkoom, 2014-09-03 **Science Education in the Arab Gulf States** Nasser Mansour, Saeed Al-Shamrani, 2015-04-27 The book introduces the development of science education in the Arab Gulf states and presents a critical analysis of current issues and concerns in educational research in science education The key purpose is to provide some perspectives on the state of science education in Gulf and to share experiences with international scholars about the impact of the innovations and reforms implemented in science education in Arabian Gulf But Science Education in the Arab Gulf States also intends to present new visions and to make suggestions and recommendations about the contribution of science education to prepare students in the knowledge age The volume is organised into three main sections The first section addresses the current practices and challenges in science education in some of the Arab Gulf states This section sheds critically the light on the challenges and problems that hinder or constrain the implementation of innovations in science education The second section analyses the science educational reforms and innovations that are being implemented in the Arabian Gulf This section presents experiences and research with using new approaches to teaching and learning in science classrooms in some of the Arab Gulf states The third section discusses the socio cultural issues that have impacted on shaping and reshaping the science education in the Arabian Gulf This section focuses on exploring the socio cultural factors that influence engagement and non engagement in science education It also explores how socio cultural issues and contexts guide the reform of science education in the Arabian Gulf and presents various examples of how we can respond to cultural issues

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Science Sifting Rodney R. Dietert,Janice Dietert,2013 Science Sifting is designed primarily as a textbook for students interested in research and as a general reference book for existing career scientists The aim of this book is to help budding scientists broaden their capacities to access and use information from diverse sources to the benefit of their research careers The book describes why the capacity to access and integrate both linear and nonlinear information has been an important historic feature of pivotal scientific breakthroughs Yet it is a process that our students are rarely if ever taught in universities This book goes beyond simply describing the features of great scientific breakthroughs It discusses the basis for accessing and using nonlinear information in the linear research context It also provides a series of tools and exercises that can be used to enhance access to nonlinear information for application to research and other endeavors Topics covered include focal points in scientific breakthroughs the use of concepts maps in research use of different vantage points information as patterns fractals for the scientist memory storage and access points and synchronicities Young researchers need useful tools to help with a more holistic approach to their research careers This book provides the useful tools to support flexibility and creativity across a long term research career **150 technical questions and answers for job interview Offshore Oil & Gas Rigs** Petrogav International Oil & Gas Training Center,2020-06-30 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 150 questions and answers for job interview and as a BONUS web

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to be reconsidered in order to regain stability in the global marketplace One such consideration is the failing dynamics of the international tax infrastructure Neoliberalism 2 0 brings a 21st century assessment of the Pigovian taxes considering a completely new calibration of the international tax systems inspired by the historically developed Pigovian tax model The book considers the impact neoliberalism had and will have on regulatory infrastructure democracy in an era of globalization and reduced legitimization of the national state The Pigovian model brings home the often forgotten relationship between taxation as a part of the regulatory sphere macro economics and the political philosophical context in which law and economics emerge The model also takes into account the phenomena of globalization and financialization and is tested using the financial sector as an example This book addresses the many challenges a Pigovian shift would imply for the sovereign and its national economies Neoliberalism 2 0 demonstrates the ability to design a paradigm changing alternative to the current tax infrastructure while taking into account a low economic growth environment of the future the implications of globalization and the changing relationship between citizens and their state

Biomedical Image Segmentation Ayman El-Baz,Xiaoyi Jiang,Jasjit S. Suri,2016-11-17 As one of the most important tasks in biomedical imaging image segmentation provides the foundation for quantitative reasoning and diagnostic techniques A large variety of different imaging techniques each with its own physical principle and characteristics e g noise modeling often requires modality specific algorithmic treatment In recent years substantial progress has been made to biomedical image segmentation Biomedical image segmentation is characterized by several specific factors This book presents an overview of the advanced segmentation algorithms and their applications

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Table of Contents November 2012 Pfor Physics Grade 12

1. Understanding the eBook November 2012 Pfor Physics Grade 12
 - The Rise of Digital Reading November 2012 Pfor Physics Grade 12
 - Advantages of eBooks Over Traditional Books
2. Identifying November 2012 Pfor Physics Grade 12
 - 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 November 2012 Pfor Physics Grade 12
 - User-Friendly Interface
4. Exploring eBook Recommendations from November 2012 Pfor Physics Grade 12
 - Personalized Recommendations

- November 2012 Pfor Physics Grade 12 User Reviews and Ratings
- November 2012 Pfor Physics Grade 12 and Bestseller Lists
- 5. Accessing November 2012 Pfor Physics Grade 12 Free and Paid eBooks
 - November 2012 Pfor Physics Grade 12 Public Domain eBooks
 - November 2012 Pfor Physics Grade 12 eBook Subscription Services
 - November 2012 Pfor Physics Grade 12 Budget-Friendly Options
- 6. Navigating November 2012 Pfor Physics Grade 12 eBook Formats
 - ePub, PDF, MOBI, and More
 - November 2012 Pfor Physics Grade 12 Compatibility with Devices
 - November 2012 Pfor Physics Grade 12 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of November 2012 Pfor Physics Grade 12
 - Highlighting and Note-Taking November 2012 Pfor Physics Grade 12
 - Interactive Elements November 2012 Pfor Physics Grade 12
- 8. Staying Engaged with November 2012 Pfor Physics Grade 12
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers November 2012 Pfor Physics Grade 12
- 9. Balancing eBooks and Physical Books November 2012 Pfor Physics Grade 12
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection November 2012 Pfor Physics Grade 12
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine November 2012 Pfor Physics Grade 12
 - Setting Reading Goals November 2012 Pfor Physics Grade 12
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of November 2012 Pfor Physics Grade 12
 - Fact-Checking eBook Content of November 2012 Pfor Physics Grade 12

- 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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