

## SECTION B

### ESSAY

1½ hours

[ 60 marks ]

*Answer eight questions in all.*

**Five** questions from Part I and **three** questions from Part II.

### PART I

[15 marks]

*Answer any five questions from this part.*

*All* questions carry equal marks.

1. (a) Define strain.  
(b) A rubber band is stretched to twice its original length.  
Calculate the strain on the rubber band.
2. State **three** materials used for making optical fibres.
3. Name **three** classes of magnetic materials.
4. (a) What is an *intrinsic semiconductor*?  
(b) Distinguish between the *p*-type and *n*-type semiconductors.
- 5.
6. A black body radiates maximum energy when its surface temperature  $T$  and the corresponding wavelength  $\lambda_{\text{max}}$  are related by the equation,  $\lambda_{\text{max}} T = \text{constant}$ . Given the values of the constant and surface temperature as  $2.9 \times 10^{-3}$  mK and  $57^\circ\text{C}$  respectively.  
Calculate the frequency of the energy radiated.
7. (a) What does the acronym *LASER* stand for?  
(b) What is a *laser*?

(PART II)

[45 marks]

*Answer any three questions from this part.*

*All* questions carry equal marks.

8. (a) Define *uniform acceleration*.  
(b) Forces act on a car in motion, list the:  
(i) horizontal forces and their directions;  
(ii) vertical forces and their directions,  
  
(c) A car starts from rest and accelerates uniformly for 20s to attain a speed of  $25 \text{ ms}^{-1}$ . It maintains this speed for 30s before decelerating uniformly to rest.  
The total time for the journey is 60 s.  
(i) Sketch a velocity-time graph for the motion.  
(ii) Use the graph to determine the:  
(a) total distance travelled by the car;  
(b) deceleration of the car.

# Question On Physics Essay Waec 2014 2015

**Ahmed N. Al-Masri, Yousef Al-Assaf**

## **Question On Physics Essay Waec 2014 2015:**

**Sustainable Development and Social Responsibility—Volume 2** Ahmed N. Al-Masri, Yousef Al-Assaf, 2020-01-13 This book gathers high quality research papers presented at the 2nd AUE international research conference AUEIRC 2018 which was organized by the American University in the Emirates Dubai and held on November 13th 15th 2018 The book is broadly divided into two main sections Sustainability and Smart Business and Sustainability and Creative Industries The broad range of topics covered under these sections includes risk assessment in agriculture corporate social responsibility and the role of intermediaries the impact of privatizing health insurance political events and their effect on foreign currency exchange the effect of sustainable HR practices on financial performance sustainability integration in the supply chain and logistics gender inequality in the MENA economies the panel data model the model of sustainable marketing in the era of Industry 4.0 micro enterprises as a tool for combating unemployment the impact of financial education and control on financial behavior measuring financial and asset performance in agricultural firms a comprehensive strategic approach to sustainability in the UAE sustainability and project finance HR analytics FaD or fashion for organizational sustainability a conceptual framework of sustainable competitive advantages psychology of organizational sustainability Blockchain technology and sustainability veganism and sustainability institution building from an emotional intelligence perspective sustainable concrete production using CWP occupants behavior and energy usage in Emirati houses the effect of shop lighting on consumer behavior multimedia applications in digital transformation art integrating biomimicry principles in sustainable architecture experimental sustainable practices in fashion education technology assisted student centered learning for civil engineering and a 10 step design process for architectural design studios All contributions present high quality original research work findings and lessons learned in practical development

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## **Table of Contents Question On Physics Essay Waec 2014 2015**

1. Understanding the eBook Question On Physics Essay Waec 2014 2015
  - The Rise of Digital Reading Question On Physics Essay Waec 2014 2015
  - Advantages of eBooks Over Traditional Books
2. Identifying Question On Physics Essay Waec 2014 2015
  - 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 Question On Physics Essay Waec 2014 2015
  - User-Friendly Interface
4. Exploring eBook Recommendations from Question On Physics Essay Waec 2014 2015

- Personalized Recommendations
- Question On Physics Essay Waec 2014 2015 User Reviews and Ratings
- Question On Physics Essay Waec 2014 2015 and Bestseller Lists

5. Accessing Question On Physics Essay Waec 2014 2015 Free and Paid eBooks
  - Question On Physics Essay Waec 2014 2015 Public Domain eBooks
  - Question On Physics Essay Waec 2014 2015 eBook Subscription Services
  - Question On Physics Essay Waec 2014 2015 Budget-Friendly Options
6. Navigating Question On Physics Essay Waec 2014 2015 eBook Formats
  - ePUB, PDF, MOBI, and More
  - Question On Physics Essay Waec 2014 2015 Compatibility with Devices
  - Question On Physics Essay Waec 2014 2015 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Question On Physics Essay Waec 2014 2015
  - Highlighting and Note-Taking Question On Physics Essay Waec 2014 2015
  - Interactive Elements Question On Physics Essay Waec 2014 2015
8. Staying Engaged with Question On Physics Essay Waec 2014 2015
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Question On Physics Essay Waec 2014 2015
9. Balancing eBooks and Physical Books Question On Physics Essay Waec 2014 2015
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Question On Physics Essay Waec 2014 2015
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Question On Physics Essay Waec 2014 2015
  - Setting Reading Goals Question On Physics Essay Waec 2014 2015
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Question On Physics Essay Waec 2014 2015

- Fact-Checking eBook Content of Question On Physics Essay Waec 2014 2015
- 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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