

SECTION B

ESSAY

$1\frac{1}{2}$ 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 λ_{max} are related by the equation, $\lambda_{\text{max}} T = \text{constant}$. Given the values of the constant and surface temperature as 2.9×10^{-3} mK and 57°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 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.

20ican Past Question And Answers Theory

JA Banks

20ican Past Question And Answers Theory:

Whispering the Techniques of Language: An Mental Quest through **20ican Past Question And Answers Theory**

In a digitally-driven earth where screens reign supreme and immediate conversation drowns out the subtleties of language, the profound techniques and emotional subtleties concealed within words usually move unheard. Yet, nestled within the pages of **20ican Past Question And Answers Theory** a charming literary treasure sporting with natural thoughts, lies an exceptional journey waiting to be undertaken. Written by a skilled wordsmith, that wonderful opus invites visitors on an introspective trip, delicately unraveling the veiled truths and profound impact resonating within ab muscles material of every word. Within the psychological depths with this touching review, we can embark upon a genuine exploration of the book is primary themes, dissect its fascinating publishing type, and succumb to the strong resonance it evokes serious within the recesses of readers hearts.

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Table of Contents 20ican Past Question And Answers Theory

1. Understanding the eBook 20ican Past Question And Answers Theory
 - The Rise of Digital Reading 20ican Past Question And Answers Theory
 - Advantages of eBooks Over Traditional Books
2. Identifying 20ican Past Question And Answers Theory
 - 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 20ican Past Question And Answers Theory
 - User-Friendly Interface
4. Exploring eBook Recommendations from 20ican Past Question And Answers Theory

- Personalized Recommendations
- 20ican Past Question And Answers Theory User Reviews and Ratings
- 20ican Past Question And Answers Theory and Bestseller Lists

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 - 20ican Past Question And Answers Theory Public Domain eBooks
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 - 20ican Past Question And Answers Theory Budget-Friendly Options
6. Navigating 20ican Past Question And Answers Theory eBook Formats
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 - 20ican Past Question And Answers Theory Compatibility with Devices
 - 20ican Past Question And Answers Theory Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 20ican Past Question And Answers Theory
 - Highlighting and Note-Taking 20ican Past Question And Answers Theory
 - Interactive Elements 20ican Past Question And Answers Theory
8. Staying Engaged with 20ican Past Question And Answers Theory
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 20ican Past Question And Answers Theory
9. Balancing eBooks and Physical Books 20ican Past Question And Answers Theory
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 20ican Past Question And Answers Theory
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 20ican Past Question And Answers Theory
 - Setting Reading Goals 20ican Past Question And Answers Theory
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 20ican Past Question And Answers Theory

- Fact-Checking eBook Content of 20ican Past Question And Answers Theory
- 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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