

අධ්‍යයන පොදු කෙටි-පත්‍ර (උසස් පෙළ) විභාගය, 2024 අගස්තු
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 General Certificate of Education (Adv. Level) Examination, August 2024

පොදු පරීක්ෂණ I
 பொதுத் தேர்வுகள் I
 Physics I

01 S I

01 hour 20 minutes

Instructions:

- This question paper consists of 30 questions in 07 pages.
- Answer all the questions.
- Write your **Index Number** in the space provided in the answer sheet.
- Read the instructions given on the back of the answer sheet carefully.
- In each of the questions 1 to 30, pick one of the alternatives from (1), (2), (3), (4), (5) which is correct or most appropriate and mark your response on the answer sheet with a cross (x) in accordance with the instructions given on the back of the answer sheet.

Use of calculators is not allowed.
 ($g = 10 \text{ N kg}^{-1}$)

PAPER - 01

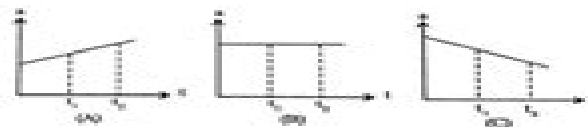
- When the dimensions of a certain physical quantity is multiplied by the dimensions of volume, dimensions of work are obtained. That physical quantity can be?

(1) Force (2) Momentum (3) Pressure (4) Mass (5) Velocity
- The area of a rectangular stage is $100 \pm 0.2 \text{ m}^2$. The length of a side is, (Fractional error get added when multiplying)

(1) $(10 \pm 0.001)\text{m}$ (2) $(10 \pm 0.01)\text{m}$ (3) $(10 \pm 0.1)\text{m}$ (4) $(10 \pm 0.02)\text{m}$ (5) $(10 \pm 0.2)\text{m}$
- If the resultant of all the external forces acting on a particle system is zero, which statement is definitely correct?

(1) The translational kinetic energy of the system doesn't vary with time
 (2) The rotational kinetic energy of the system doesn't vary with time
 (3) The potential energy of the system doesn't vary with time
 (4) The angular momentum of the system doesn't vary with time
 (5) The linear momentum of the system doesn't vary with time
- Three acceleration (a) - time (t) graphs for an object with a positive initial velocity are shown below. Which of the following graphs show a continuous increase of the positive velocity from t_1 to t_2 ?

(1) A only
 (2) A and B only
 (3) A and C only
 (4) All A, B and C
 (5) Neither A, B nor C show this characteristic



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Table of Contents Grade 1physics Paper November 2014 Exemplar

1. Understanding the eBook Grade 1physics Paper November 2014 Exemplar
 - The Rise of Digital Reading Grade 1physics Paper November 2014 Exemplar
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 1physics Paper November 2014 Exemplar
 - 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 Grade 1physics Paper November 2014 Exemplar
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 1physics Paper November 2014 Exemplar
 - Personalized Recommendations
 - Grade 1physics Paper November 2014 Exemplar User Reviews and Ratings
 - Grade 1physics Paper November 2014 Exemplar and Bestseller Lists

5. Accessing Grade 1physics Paper November 2014 Exemplar Free and Paid eBooks
 - Grade 1physics Paper November 2014 Exemplar Public Domain eBooks
 - Grade 1physics Paper November 2014 Exemplar eBook Subscription Services
 - Grade 1physics Paper November 2014 Exemplar Budget-Friendly Options
6. Navigating Grade 1physics Paper November 2014 Exemplar eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 1physics Paper November 2014 Exemplar Compatibility with Devices
 - Grade 1physics Paper November 2014 Exemplar Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 1physics Paper November 2014 Exemplar
 - Highlighting and Note-Taking Grade 1physics Paper November 2014 Exemplar
 - Interactive Elements Grade 1physics Paper November 2014 Exemplar
8. Staying Engaged with Grade 1physics Paper November 2014 Exemplar
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 1physics Paper November 2014 Exemplar
9. Balancing eBooks and Physical Books Grade 1physics Paper November 2014 Exemplar
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 1physics Paper November 2014 Exemplar
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 1physics Paper November 2014 Exemplar
 - Setting Reading Goals Grade 1physics Paper November 2014 Exemplar
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 1physics Paper November 2014 Exemplar
 - Fact-Checking eBook Content of Grade 1physics Paper November 2014 Exemplar
 - 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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