



D.A.V. PUBLIC SCHOOL, NEW PANVEL

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Practice Paper

2013-2014

STD:- XI

Sub:- Physics

Time:- 3 Hours

Marks:- 70

GENERAL INSTRUCTIONS:

- 1) All questions are compulsory.
- 2) There are 26 questions in total. Questions 1 to 5 questions short answer questions and carry 1 mark each. Questions 6 to 10 are short answer questions and carry two marks each. Questions 11 to 22 carry three marks each, question 23 carries 4 marks and questions 24 to 26 are long answer questions and carry five marks each.
- 3) There is no overall choice. However, an internal choice has been provided in one question of two marks, one question of three marks and all three questions of five marks each. You have to attempt only one of the given choices in such questions.
- 4) Use of calculators is not permitted. Log tables will be provided, if needed.
- 5) 15 minutes time has been allotted to read this question paper. During this time, the students will read the question paper only, she / he will not write any answer on the answer script during this period.

1)	The density of oxygen is 16 times the density of hydrogen. What is the relation between the speeds of sound in two cases?	(1M)
2)	If the momentum of a body is doubled, find % age increase in its kinetic energy ?	(1M)
3)	If a vector $2\vec{i} + 3\vec{j} + 9\vec{k}$ is perpendicular to the vector $4\vec{j} + 4\vec{k} + a\vec{k}$, find value of " a " ?	(1M)
4)	Three stars p, Q, R appear as green, red and blue respectively. Which star has minimum temperature?	(1M)
5)	If the polar ice caps melt and spread uniformly, how will the length of the day be affected?	(1M)
6)	Find the resultant of the following forces acting at a point $200\sqrt{2}$ N along NE, $500\sqrt{2}$ N along NW and 800 N along south.	(2M)
7)	Derive an equation for the distance covered by a uniformly accelerated body in nth second of its motion.	(2M)
8)	State the any four important postulates of the kinetic theory of gases.	(2M)

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R Bogdan



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Table of Contents Grade 11 Physics Paper 2 2014 Guideline

1. Understanding the eBook Grade 11 Physics Paper 2 2014 Guideline
 - The Rise of Digital Reading Grade 11 Physics Paper 2 2014 Guideline
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 11 Physics Paper 2 2014 Guideline
 - 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 11 Physics Paper 2 2014 Guideline
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 11 Physics Paper 2 2014 Guideline
 - Personalized Recommendations
 - Grade 11 Physics Paper 2 2014 Guideline User Reviews and Ratings
 - Grade 11 Physics Paper 2 2014 Guideline and Bestseller Lists
5. Accessing Grade 11 Physics Paper 2 2014 Guideline Free and Paid eBooks

- Grade 11 Physics Paper 2 2014 Guideline Public Domain eBooks
 - Grade 11 Physics Paper 2 2014 Guideline eBook Subscription Services
 - Grade 11 Physics Paper 2 2014 Guideline Budget-Friendly Options
6. Navigating Grade 11 Physics Paper 2 2014 Guideline eBook Formats
- ePub, PDF, MOBI, and More
 - Grade 11 Physics Paper 2 2014 Guideline Compatibility with Devices
 - Grade 11 Physics Paper 2 2014 Guideline Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Grade 11 Physics Paper 2 2014 Guideline
 - Highlighting and Note-Taking Grade 11 Physics Paper 2 2014 Guideline
 - Interactive Elements Grade 11 Physics Paper 2 2014 Guideline
8. Staying Engaged with Grade 11 Physics Paper 2 2014 Guideline
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 11 Physics Paper 2 2014 Guideline
9. Balancing eBooks and Physical Books Grade 11 Physics Paper 2 2014 Guideline
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 11 Physics Paper 2 2014 Guideline
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 11 Physics Paper 2 2014 Guideline
- Setting Reading Goals Grade 11 Physics Paper 2 2014 Guideline
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 11 Physics Paper 2 2014 Guideline
- Fact-Checking eBook Content of Grade 11 Physics Paper 2 2014 Guideline
 - 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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web the connection will be made with gusset plates of finnish birch plywood with a thickness of 12 mm the gusset plate has a clear coverage of 250 mm in the rafters and 100 mm in the post figure 1 the face grain is horizontal to the connection figure 1 members to be connected the fasteners that will be used are nails with a tensile strength

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web jun 28 2018 the plywood or osb thickness will be 3 8 7 16 15 32 19 32 23 32 giving this even more thought it would seem that certain gusset thicknesses and nail combinations would not be optimal if the possibility for clinching and double shear is not possible

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web may 1 2015 while it is possible to use metal plates for gussets in making homemade trusses most people use plywood

not only are plywood gussets easier to work with than metal ones they can be easily customized when using metal plates for gussets you are limited to the sizes available at your lumberyard

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