



# 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 $4\vec{j} + 4\vec{k} + a\vec{i}$ , 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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**Yijin Wang**



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