# CBSE Class 12 Physics Question Paper 2011

# PHYSICS (Theory)

# भौतिक विज्ञान (सैद्धान्तिक)

Ti me allowed : 3 hours निर्धारित समय : 3 वण्टे

Maximum Marks: 100 अधिकतम अंक : 100

#### General Instructions:

- (i) All questions are compulsory.
- (ii) There are 30 questions in total. Questions 1 to 8 are very short answer type questions and carry one mark each.
- (iii) Questions 9 to 18 carry two marks each, questions 19 to 27 carry three marks each and questions 28 to 30 carry five marks each.
- (iv) There is no overall choice. However, an internal choice has been provided in one question of two mains, one question of three marks and all three questions of five marks each. You have to attempt only one of the choices in such questions.
- (v) Use of calculators is not permitted. However, you may use log tables if necessary.
- (vi) You may use the following values of physical constants wherever necessary

c = 3 × 10<sup>8</sup> m/s  
h = 6·63 × 10<sup>-34</sup> Js  
e = 1·6 × 10<sup>-13</sup> C  

$$\mu_e = 4\pi \times 10^{-7}$$
 T m A<sup>-1</sup>  
 $\frac{1}{4\pi\epsilon} = 9 \times 10^9$  N m<sup>2</sup> C<sup>-2</sup>  
 $m_e = 9·1 \times 10^{-31}$  kg

#### सामान्य विदेश :

- (i) सभी प्रश्न अतिवार्य हैं ।
- (EU) इस बरन-पत्र में कुल 30 प्रश्न है। बरन 1 से 8 तक के प्रश्न आवि-लयुवतरीय प्रश्न है और प्रत्येक एक अंक का है।
- (iii) प्रश्न 9 से 18 में प्रत्येक प्रश्न दो अंक का है, प्रश्न 19 से 27 में प्रत्येक प्रश्न सीन अंक का है तथा प्रश्न 28 से 30 में प्रत्येक प्रश्न परिच अंक का है।
- (10) तरन-पत्र में समय पर कोई जिकल्प नहीं है। तथापि, दो अंकों वाले एक प्रश्न में, तीन अंकों बाले एक प्रश्न में और पाँच अंकों वाले तीनों प्रश्नों में आन्तरिक चयन प्रदान किया गया है। ऐसे प्रश्नों में आपको दिये गये बचन में से केवल एक प्रश्न ही करना है।

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**Sebastian Brünink** 

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