

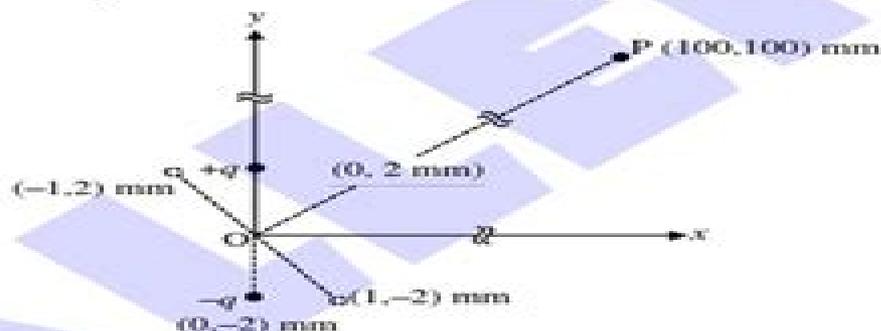
**FINAL JEE(Advanced) EXAMINATION – 2023**

 (Held On Sunday 04<sup>th</sup> June, 2023)

**PAPER-2**
**TEST PAPER WITH ANSWER**
**PHYSICS**
**SECTION-1 : (Maximum Marks : 12)**

- This section contains **FOUR (04)** questions.
- Each question has **FOUR** options (A), (B), (C) and (D). **ONLY ONE** of these four options is the correct answer.
- For each question, choose the option corresponding to the correct answer.
- Answer to each question will be evaluated according to the following marking scheme:  
*Full Marks* : +3 If **ONLY** the correct option is chosen;  
*Zero Marks* : 0 If none of the options is chosen (i.e. the question is unanswered);  
*Negative Marks* : -1 In all other cases.

1. An electric dipole is formed by two charges  $+q$  and  $-q$  located in  $xy$ -plane at  $(0, 2)$  mm and  $(0, -2)$  mm, respectively, as shown in the figure. The electric potential at point  $P(100, 100)$  mm due to the dipole is  $V_0$ . The charges  $+q$  and  $-q$  are then moved to the points  $(-1, 2)$  mm and  $(1, -2)$  mm, respectively. What is the value of electric potential at  $P$  due to the new dipole ?


 (A)  $V_0/4$ 

 (B)  $V_0/2$ 

 (C)  $V_0/\sqrt{2}$ 

 (D)  $3V_0/4$ 
**Ans. (B)**

2. Young's modulus of elasticity  $Y$  is expressed in terms of three derived quantities, namely, the gravitational constant  $G$ , Planck's constant  $h$  and the speed of light  $c$ , as  $Y = c^\alpha h^\beta G^\gamma$ . Which of the following is the correct option ?

 (A)  $\alpha = 7, \beta = -1, \gamma = -2$ 

 (B)  $\alpha = -7, \beta = -1, \gamma = -2$ 

 (C)  $\alpha = 7, \beta = -1, \gamma = 2$ 

 (D)  $\alpha = -7, \beta = 1, \gamma = -2$ 
**Ans. (A)**

# F325 June 2013 Question Paper

**Jicheng Xie**



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