

## PART II : PHYSICS

### SECTION – I (Total Marks : 21)

(Single Correct Answer Type)

This section contains 7 multiple choice questions. Each question has four choices (A), (B), (C) and (D) out of which **ONLY ONE** is correct.

24. A police car with a siren of frequency 8 kHz is moving with uniform velocity 36 km/hr towards a tall building which reflects the sound waves. The speed of sound in air is 320 m/s. The frequency of the siren heard by the car driver is

(A) 8.50 kHz      (B) 8.25 kHz      (C) 7.75 kHz      (D) 7.50 kHz

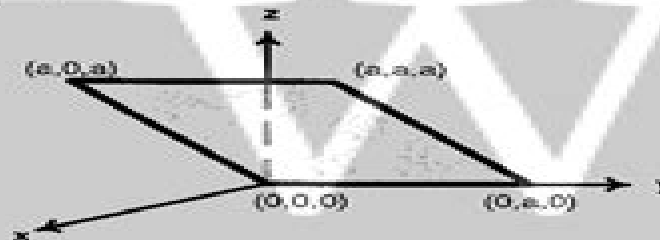
ANSWER : A

25. 5.6 liter of helium gas at STP is adiabatically compressed to 0.7 liter. Taking the initial temperature to be  $T_1$ , the work done in the process is

(A)  $\frac{9}{8} R T_1$       (B)  $\frac{3}{2} R T_1$       (C)  $\frac{15}{8} R T_1$       (D)  $\frac{9}{2} R T_1$

ANSWER : A

26. Consider an electric field  $\vec{E} = E_0 \hat{x}$ , where  $E_0$  is a constant. The flux through the shaded area (as shown in the figure) due to this field is



(A)  $2E_0 a^2$       (B)  $\sqrt{2} E_0 a^2$       (C)  $E_0 a^2$       (D)  $\frac{E_0 a^2}{\sqrt{2}}$

ANSWER : C

# Jee Question Paper 2011

**Jianjun Gao**



## **Jee Question Paper 2011:**

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 vettoriale se la loro combinazione lineare permette di generare qualsiasi altro vettore  $v = a_1 v_1 + a_2 v_2 + \dots + a_n v_n$   
 $k_1 v_1 + k_2 v_2 + \dots + k_n v_n$

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 verificare che  $r_3$  non è uno spazio vettoriale su  $r$  rispetto alle seguenti operazioni

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 sottospazi giustificando la risposta 2 in caso affermativo determinarne una base e una dimensione

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web uno spazio vettoriale è un insieme  $V$  di elementi detti vettori in cui sono definite due operazioni dette addizione e la

sottrazione tra vettori e moltiplicazione di un vettore per uno scalare cioè per un numero reale che soddisfano le seguenti proprietà proprietà commutativa dell addizione tra vettori  $u + v = v + u$