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## KEAM ENGINEERING ENTRANCE EXAM 2020

### PAPER I – PHYSICS & CHEMISTRY QUESTIONS

- A traveling wave in a medium is given by the equation  $y = a \sin (\omega t - kx)$ . The maximum acceleration of the particle in the medium is  
(A)  $a$  (B)  $a \omega^2$  (C)  $\omega/k$  (D)  $\omega/t$  (E)  $k$
- Two simple harmonic motions with the same amplitude and same frequency acting in the same direction are impressed on a particle. If the resultant amplitude of the particle is equal to the amplitude of individual S.H.M.s, the phase difference between the two simple harmonic motions is  
(A)  $\frac{2\pi}{\sqrt{3}}$  (B)  $\frac{\pi}{2}$  (C)  $\frac{\pi}{4}$  (D)  $\frac{2\pi}{3}$  (E)  $\frac{\pi}{3}$
- Two nearest harmonics of an organ pipe open at both the ends are 200 Hz and 240 Hz. The fundamental frequency is  
(A) 40 Hz (B) 20 Hz (C) 30 Hz (D) 80 Hz (E) 50 Hz
- Two strings of the same material and same length are given equal tension. If they are vibrating with fundamental frequencies 1600 Hz and 900 Hz, then the ratio of their respective diameters is  
(A) 16 : 9 (B) 4 : 3 (C) 81 : 256 (D) 3 : 4 (E) 9 : 16
- An object, moving in a straight line with velocity  $100 \text{ ms}^{-1}$ , goes past a stationary observer. If the object emits note of 400 Hz while moving, the change in the frequency note by the observer as the object goes past him is  
(A) 350 Hz (B) 300 Hz (C) 200 Hz (D) 100 Hz (E) 150 Hz
- The electric flux (in SI units) through any face of a cube due to a positive charge  $Q$  situated at the centre of a cube is  
(A)  $\frac{Q}{4\pi\epsilon_0}$  (B)  $4\pi\epsilon_0 Q$  (C)  $\frac{Q}{6\pi\epsilon_0}$  (D)  $\frac{Q}{6\pi\epsilon_0}$  (E)  $6\pi\epsilon_0 Q$
- A capacitance of a parallel plate air capacitor is  $10\mu\text{F}$ . Dielectric constant of the medium to be introduced in between its plates to double its capacitance is  
(A) 2 (B) 3 (C) 4 (D) 2.5 (E) 1.5

# Keam 2011 Question Paper

**RJ Shavelson**



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