

KEAM 2024 Physics Model Question Paper PDF 2

1. A passenger in a moving bus is thrown forward when the bus suddenly stops. This is explained
 - A. by Newton's first law
 - B. by Newton's second law
 - C. by Newton's third law
 - D. by the principle of conservation of momentum

2. At which point of the Earth is there no gravity?
 - A. At North and South Pole
 - B. At equator
 - C. On the ocean surface
 - D. At centre of the Earth

3. An echo returned in 2s. What is the distance of the reflecting surface from the source, given that the speed of the sound is 342 ms^{-1} .
 - A. 342 m
 - B. 648 m
 - C. 171 m
 - D. 85.5 m

4. A machine gun fires 60 bullets per minute with a velocity of 700 m/s . If each bullet has a mass of 50 g. the power developed by the gun is:
 - A. 250 W
 - B. 50 W
 - C. 12250 W
 - D. 2250 W

5. An object is placed at a distance of 10 cm in front of a double convex lens made of glass of refractive index 1.5. Both the radii of curvature of the lens are 20 cm in magnitude. What is the position of the image formed?
 - A. -35 cm
 - B. 10 cm

- C. -20 cm
- D. 20 cm

