

# UNEB UACE PHYSICS PAPER 1 2017

## SECTION A

1 a) i) State Newton's laws of motion.

ii) A molecule of gas contained in a cube of side  $l$  strikes the wall of the cube repeatedly with a velocity  $u$ .

b) i) Define linear momentum and state the law of conservation of linear momentum.

ii) A body of mass  $m_1$  moving with a velocity  $u$ , collides with another body of mass  $m_2$  at rest. If they stick together after collision, find the common velocity with which they will move.

c) A bullet of mass  $10\text{g}$  is fired horizontally with a velocity of  $300\text{ ms}^{-1}$  into a block of wood of mass  $290\text{g}$  which rests on a rough horizontal floor. After impact, the block and bullet move together and come to rest when the block has travelled a distance of  $15\text{m}$ . Calculate the coefficient of sliding friction between the block and the floor.

2.a) State Kepler's laws of planetary motion.

b) Use Newton's law of gravitation to derive the dimension of the universal gravitational constant.

c) A satellite is revolving at a height  $h$  above the surface of the earth with a period,  $T$ .

i) Show that the acceleration due to gravity  $g$  on the earth's surface is given by

$$g = \frac{4\pi^2(r_e + h)^3}{T^2 r_e^2} \quad \text{where } r_e \text{ is the radius of the earth.}$$

ii) What is meant by parking orbit?

d) A satellite revolves in a circular orbit at a height of  $600\text{km}$  above the earth's surface. Calculate the

i. speed of the satellite.

ii. periodic time of the satellite.

3 a) i) Define Simple harmonic motion.

ii) Sketch a displacement – time graph for a body performing simple harmonic motion.

b) A uniform cylindrical rod of length  $16\text{cm}$  and density  $920\text{kgm}^{-3}$  floats vertically in a liquid of density  $1000\text{kgm}^{-3}$ . The rod is depressed through a distance of  $7\text{mm}$  and then released.

i. Show that the rod performs simple harmonic motion.

ii. Find the frequency of the resultant oscillations.

iii. Find the velocity of the rod when it is at a distance of  $5\text{mm}$  above the equilibrium position.

c) What is meant by potential energy?

d) Describe the energy changes which occur when a

i. ball is thrown upwards in air.

ii. loud speaker is vibrating.

4. a) i) Define elastic deformation and plastic deformation

ii) Explain what is meant by work hardening.

b) i) Sketch using the same axes, stress-strain curves for a ductile material and for rubber.

ii) Explain the features of the curve for rubber.

c) A capillary tube is held in a vertical position with one end dipping in a liquid of surface tension  $\sigma$  and density  $\rho$ . If the liquid rises to a height,  $h$ , derive an expression for  $h$  in terms of  $\sigma$ ,  $\rho$  and radius  $r$  of the tube assuming the angle of contact is zero.

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