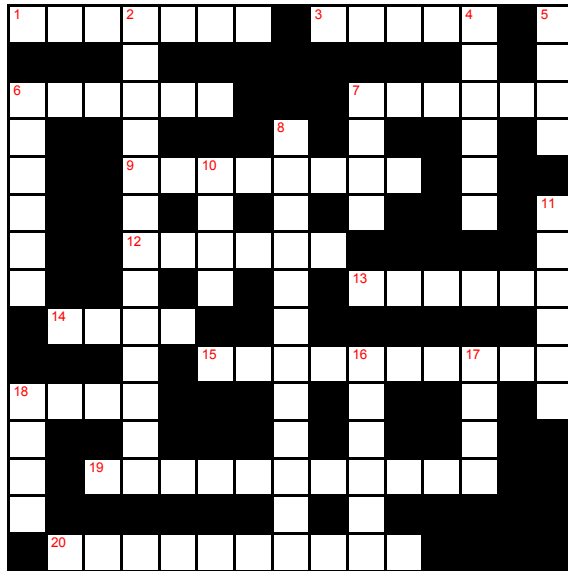


Mechanics_15x15_2008-10-11

B.B. Huria



Across

- | | |
|--|---|
| <p>1 Force of attraction between all masses in the universe (7)</p> <p>3 The unit of work in S.I. system (5)</p> <p>6 Of or relating to a directionless magnitude (6)</p> <p>7 Force that produces strain on a physical body (6)</p> <p>9 When a rigid body is suspended vertically, and it oscillates with a small amplitude under the action of gravity, the body is known as _____ (8)</p> <p>12 The act of applying force to propel something (6)</p> <p>13 A unit of force equal to the force that imparts an acceleration of 1 m/sec/sec to a mass of 1 kilogram; equal</p> | <p>to 100,000 dynes (6)</p> <p>14 Acceleration of the particle moving with simple harmonic motion is _____ at the mean position (4)</p> <p>15 A machine having an efficiency greater than 50% (10)</p> <p>18 A unit of power equal to 1 joule per second (4)</p> <p>19 A constant number that serves as a measure of some property or characteristic (11)</p> <p>20 The side of a right triangle opposite the right angle (10)</p> |
|--|---|

Down

- 2** Ratio of the distance moved by the point of force to the distance moved by the load in a simple machine (8,5)

- 4** Capacity of a physical system to do work (6)

- 5** Property of a body that causes it to have weight (4)

- 6** Deformation of a physical body under the action of applied forces (6)

- 7** Ratio of the opposite side to the hypotenuse (4)

- 8** The principle of _____ of momentum states that the total momentum of a system of moving bodies in any one direction remains constant, unless acted upon by an external forces (12)

- 10** Angle of inclination with the vertical is _____ when the cyclist is running at a faster speed (4)

- 11** All the steel trusses of the bridges have one

of their ends roller supported whereas the other end is _____. This ensures stability of the trusses (6)

- 16** The amplitude is always equal to the _____ of the circle (6)

- 17** A single pulsation of an oscillation produced by adding two waves of different frequencies; has a frequency equal to the difference between the two oscillations (4)

- 18** Whenever a force acts on a body and the body undergoes a displacement, the _____ is said to be done (4)