PHYSICS Time: 20 Minutes SECTION "A" (MULTIPLE CHOICE QUESTION) Choose th orrect answer for each from the If F=3i, and d=6j, the work done will be: (i) zero 18 (ii) Beats are produced due to: diffraction of waves in time reflection of waves in time interference of waves in time polarization of waves in time The wave from of waves will be spherical when the rays (iii) of light are: parallel • perpendicular monochromatic not parallel If 'F' be the limiting friction and R be the normal (iv) reaction, then the co-efficient of static friction will be equal to: The dimensions of G'g are: (Y) MOL 17-2 M-1L2T-2 The magnitude of resultant of two forces of magn (vi) 2N and 10N cannot be: • 4N • 6N • 9N • 13N If a body moves in a cirle, then the angle subtended at (vii)the centre of circle by as are equals to twice of its radius will be: 80° 114.6° spectrometer, the focal length of convex lens is equal to length of its: telescope • obstacles • collimator • turntable The point which describes the motion of the whole (ix) system or body is known as the: • cetre of gravity centre of mass · inertia · moment of inertia The product of frequency and time period is: (x) (xi) When a transverse wave travelling through a rare medium is reflected from a dense medium, then phase change produced in it will be equal to: 0° • 90° • 180° • 360° (xii) The gravitational constant was determined experimently by: Newton • Einstein • Cavendish • Maxwell A projectile is thrown upward with a certain velocity. Its (xiii) time of flight will be minimum, if it is launched at an angle of: • 30° • 45° (xiv) (ixj)*(jxi)is: • -1 • k Two forces which are equal in magnitude but opposite in direction and not acting along the same straight line (xv) cicle e couple e power e torque If the time interval is very small ($\Delta t \rightarrow 0$), the rate of change of velocity of a body is called: Average acceleration

Acceleration Instantaneous acceleration . Constant acceleration (xvii) Weber Fechner Law is: $I\alpha \overline{\log L}$ 1 a log L lalog L · Lalog1