

ENGINEERING SCIENCE - CBA LEVEL II DECEMBER, 2020
Attempt any FIVE (5) questions out of SEVEN (7) questions.

1. (a) State the 'Principle of Moments'.
(b) Describe two (2) conditions for a body to be at the state of equilibrium.

(c) A uniform wooden beam, 4.8m long is supported at its left-hand end and also at 3.2m from the left hand end. If the weight of the beam is 200N, determine the reactions at the supports.

2. (a) Define the following:

- (i) Radian
(ii) Velocity

- (b) Convert the following units as per instructions given:

- (i) 36km/h into m/s
(ii) 2400rev/min into rad/s

- (c) Derive the equation which shows the relationship between linear velocity, V and angular velocity, ω .

- (d) A wheel of diameter 540mm is rotating at 480rev/min, calculate the linear velocity of the point on the rim of the wheel.

3. (a) Define the following terms:

- (i) Mechanical advantage
(ii) Efficiency of a machine

- (b) Explain why the efficiency of a practical machine does not reach 100%.

- (c) Draw a block and tackle system of pulleys with velocity ratio of 6.

- (d) When an effort of 400N is applied, the above pulley system can raise the load of 1500N, determine its;

- (i) Mechanical advantage
(ii) Efficiency.

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