

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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