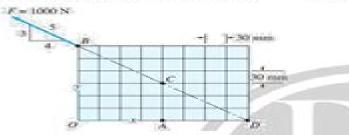
## Engineering Mechanics Basic Concepts

Class Room Questions

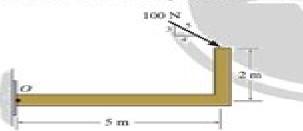
### I. [NAT]

The moment of force F about point A is \_\_\_\_\_\_ N-m.



### 2. [NAT]

The moment of the force about point O is \_\_\_\_\_ N-m.



### 3. [MCQ]

Find the moment about the point i + 2j + 3k of a force represented by i + j + k acting through the point

$$-2i + 3j + k$$
.  
(a)  $i + 2j - 3k$ 

(b) 
$$-i - 2j + 3k$$

(c) 
$$3i + j - 4k$$

(d) 
$$-3i - j + 4k$$

#### 4. [NAT]

The moment of a force F = (3i - j + 2k) kN passing through point (4,1, -2) m about point (2,0,4) m is kN-m.

### 5. [MCQ]

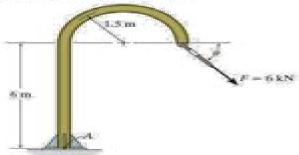
If a force of magnitude F can be applied in four different 2-D configurations (P, Q, R & S), select the cases resulting in the maximum and minimum torque values on the nut. (Max, Min).



- (a) (Q, P)
- (b) (R, S)
- (c) (P.R)
- (d) (Q. S)

### 6. [NAT]

Find the angle  $\theta$  (in deg) for which the moment of the force F at point A is maximum.



# **Common Core Engineering Questions**

**Rachel Sandford** 

**Common Core Engineering Questions:** 

The Enigmatic Realm of Common Core Engineering Questions: Unleashing the Language is Inner Magic

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