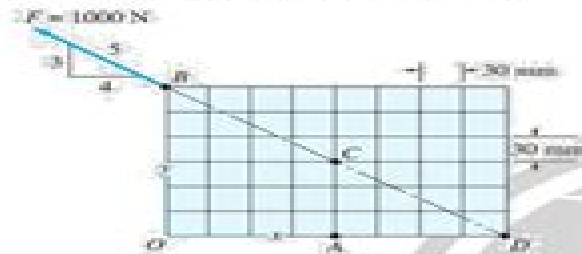


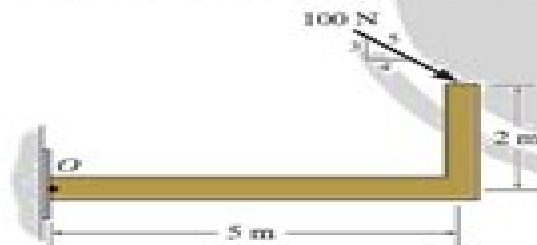
## Engineering Mechanics Basic Concepts

### Class Room Questions

1. [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]

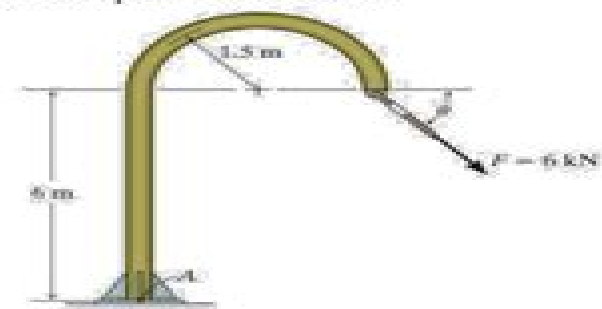
The moment of a force  $F = (3i - j + 2k)$  kN passing through point  $(4, 1, -2)$  m about point  $(2, 0, 4)$  m is \_\_\_\_\_ kN-m.

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

**Mike Tooley, Lloyd Dingle**



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*Engineering Education*, 1926 **Engineering Education** American Society for Engineering Education, 1923

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*Web Engineering* Jordi Cabot, Roberto De Virgilio, Riccardo Torlone, 2017-05-30. This book constitutes the refereed proceedings of the 17th International Conference on Web Engineering ICWE 2017 held in Rome Italy in June 2017. The 20 full research papers and 12 short papers presented together with 6 application papers, 6 demonstration papers and 6 contributions to the PhD Symposium were carefully reviewed and selected from 139 submissions. The papers cover research areas such as Web application modeling and engineering, human computation and crowdsourcing applications, Web applications, composition and mashup, Social Web applications, Semantic Web applications, Web of Things applications and big data.

**The Journal of Engineering Education**, 1926      **Bulletin No. of the Investigation of Engineering Education** Society for the Promotion of Engineering Education (U.S.). Board of Investigation and Coordination, 1926

Proceedings of the ... Annual Meeting Society for the Promotion of Engineering Education (U.S.). Annual Meeting, 1923

*Next Generation Science Standards* NGSS Lead States, 2013-09-15. Next Generation Science Standards identifies the science all K-12 students should know. These new standards are based on the National Research Council's A Framework for K-12 Science Education. The National Research Council, the National Science Teachers Association, the American Association for the Advancement of Science and Achieve have partnered to create standards through a collaborative state-led process. The standards are rich in content and practice and arranged in a coherent manner across disciplines and grades to provide all students an internationally benchmarked science education. The print version of Next Generation Science Standards complements the [nextgenscience.org](http://nextgenscience.org) website and provides an authoritative offline reference to the standards when creating lesson plans. Arranged by grade level and by core discipline, making information quick and easy to find. Printed in full color with a lay-flat spiral binding. Allows for bookmarking, highlighting and annotating.

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