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MCQ 1:

Question: A force of 12 N is applied perpendicularly on a spanner at a distance of 9 m from a nut. The torque produced by the force will be:

Options:

1. 108 Nm

2. 3 Nm

3. 5 Nm

4. 21 Nm

Correct Option: 1. 108 Nm

MCQ 2:

Question: The resultant couple moment is _____ sum of various couples acting on the body.

Options:

1. Dot

2. Vector

3. Scalar

4. Triple

Correct Option: 4. Triple

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MCQ 3:

Question: The moment of a force is _____.

Options:

1. Negative
2. Vector
3. Base
4. Scalar

Correct Option: 2. Vector

MCQ 4:

Question: The distance between the forces acting in the couple is _____.

Options:

1. Zero
2. Infinity
3. A circular loop
4. Finite

Correct Option: 4. Finite

MCQ 5:

Question: A couple moment is a _____.

Options:

1. Free
2. Scalar

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3. Del

4. Gradient

Correct Option: 2. Scalar

MCQ 6:

Question: Moment of force = _____, where F is force and d is moment arm.

Options:

1. F/d

2. $F * d$

3. $F + d$

4. $F - d$

Correct Option: 2. $F * d$

MCQ 7:

Question: Which of the following is the valid pair for the formation of couple?

Options:

1. 2N, 3N

2. 4N, 4N

3. 4N, 5N

4. 5N, 6N

Correct Option: 2. 4N, 4N

MCQ 8:

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Question: The resultant force acting in the couple is _____.

Options:

1. Zero
2. Infinite
3. Half the magnitude of single force
4. Twice the magnitude of single force

Correct Option: 1. Zero

MCQ 9:

Question: The easiest way to open a heavy door is by applying the force _____.

Options:

1. At the top of the door
2. Near the hinges
3. At the edge of the door far from hinges
4. In the middle of the door

Correct Option: 2. Near the hinges

MCQ 10:

Question: The torque depends upon _____.

Options:

1. Both force and moment arm
2. Moment arm only
3. Force only

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4. Mass

Correct Option: 1. Both force and moment arm

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