

TBSG & TBSW Physics Class 10

Total points 6/10 ?

Chapter: Force

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✓ 1) According to principle of moments, in equilibrium: *

1/1

- ☐ Sum of clockwise moments > sum of anticlockwise moments
- ☒ Sum of clockwise moments = sum of anticlockwise moments
- ☐ Sum of clockwise moments < sum of anticlockwise moments
- ☐ None of the above



Feedback

The sum of moments of all forces acting on the body about the axis should be zero at equilibrium



✓ 2) When a body is pivoted at a point and a force is applied it will show: * 1/1

- ☐ Translatory motion
- ☐ Oscillatory motion
- ☐ No movement
- ☒ Rotational motion



✗ 3) The centre of gravity of a solid cone is at a height _____ from its vertex. * 0/1

- ☒ $h/4$
- ☐ $h/3$
- ☐ $3h/4$
- ☐ $2h/3$



Correct answer

- ☒ $3h/4$



✓ 4) Which of these does not change during uniform circular motion? * 1/1

- ☐ acceleration
- ☒ speed
- ☐ velocity



Feedback

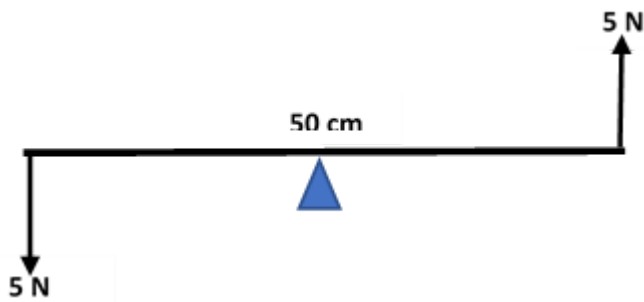
A body in circular motion changes its direction at every instant and hence changes its velocity. So it is accelerated motion.

✓ 5) The moment of force about a given axis depends on: * 1/1

- ☐ magnitude of applied force
- ☐ perpendicular distance of force applied from the axis
- ☐ neither perpendicular distance nor magnitude of force applied
- ☒ both perpendicular distance and magnitude of force applied



- ✗ 6) Two forces act on the two ends of a metre rule placed at its mid point as shown in the diagram below. The magnitude of the resultant moment of these forces about the mid point will be: * 0/2



- ☒ 25 Nm clockwise
- ☐ 250 N anticlockwise
- ☐ 5 Nm anticlockwise
- ☐ 5 Nm clockwise

✗

Correct answer

- ☒ 5 Nm anticlockwise

- ✗ 7) The position of centre of gravity of a body remains unchanged even when the body is deformed: * 0/1

- ☒ True
- ☐ False

✗

Correct answer

- ☒ False



✓ 8) Two children of masses 30 kg and 50 kg respectively are sitting on one side of a see-saw at distances 2 m and 2.5 m respectively from its centre. Where should a man of mass 74 kg sit to balance the see-saw? *

- ☐ 2 m from the other end
- ☐ 3 m on the same side as the children
- ☒ 2.5 m from the centre on the other side
- ☐ 2.5 m from the end on the other side



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