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| Pro Grada 10 | Translated by : Madusha Hemachandra, Kg/Dehi/Dehiowita National | - |

2nd term- Rivision Exercises

1) What is moment?

| 2) | | | | | |
|----------------|--------|------------------------------|--|--|--|
| | Moment | Moment of a couple of forces | | | |
| Definition | | | | | |
| Equation | | | | | |
| Unit | | | | | |
| Factors affect | | | | | |
| Examples | | | | | |

3) Describe how the moment works in each case below.



4)



The figure above shows a 2m long rod. It is balanced right in the middle.

- i. What is the clockwise moment that occurs at the end of A?
- ii. If the weight at the corner A remains the same and the weight at the corner B is removed and a weight is hung 0.5m away from the center, what is the weight that should be hung to rod to be balanced?

.....

5.) Explain the equilibrium of force.

6) Fill in the blanks below according to the requirements for an object to be in equilibrium under two forces.

- I. The two forces must havemagnitudes.
- II. The two forces must act along two directions.
- III. Both forces must lie along the of action.

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7) Fill in the blanks below with the requirements for an object to be in equilibrium under three parallel forces.

I. The three forces must be

II. The resultant of any two forces must bein magnitude and opposite in direction to the third force.



8) Fill in the blanks below with the requirements for an object to be in equilibrium under three non-parallel forces.

I. The three forces must be

II. The resultant of any two forces should beto the third force in magnitude, and opposite in direction.



9) 50kg mass is placed on a table.

- I. What is its weight?....
- II. What is the resultant force if the object is in equilibrium? Mark the forces act on the object.

| III. | What is the perpendicular reaction on the object? | 50 Kg | |
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