



PHYSICS

BOOKS - NAVNEET PHYSICS (MARATHI ENGLISH)

FORCE AND TYPES OF FORCE

Question Bank

1. What happens when you hold the two ends of a spring and pull them apart ?



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2. What happens when a blacksmith hammers a red hot piece of iron ?



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3. Take two pieces of smooth papers and two sand papers. Rub them against each other. What do you notice ?



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4. Spread small pieces of paper on a table. Rub a piece of thermocol or an inflated balloon against silk cloth and bring it near these pieces.



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5. Rub a plastic comb against dry hair and bring it near the pieces of paper



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6. Rub a peacock feather between two pages of a notebook and bring it near your fingers.

What do you see ?



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7. _____ has to be applied to change the _____ of a _____ object.



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8. When an elephant drags a wooden log over the land. the forces are applied on the log are _____ . _____ and _____ .



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9. A ball was set rolling on a large table. If it's _____ is to be changed. a _____ will have to be applied on it. (force, mottion, gravitation)



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10. The force of friction always acts _____ the motion. (along. against)



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11. Match the following:

9. 2. Match the following :

Group 'A'	Group 'B'
(1) An ox pulling a cart	(a) Magnetic force
(2) Lifting a heavy iron object with a crane	(b) Electrostatic force
(3) Weighing with a spring balance	(c) Muscular force
(4) Applying brakes to a bicycle	(d) Gravitational force
(5) Picking up pieces of paper with a plastic scale.	(e) Frictional force



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12. One or more forces are acting in the give example. Name them

An object falling from a tall building.



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13. One or more forces are acting in the give example. Name them

An aeroplane flying in the sky.



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14. One or more forces are acting in the give example. Name them

Squeezing sugarcane juice with a squeezer.



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15. One or more forces are acting in the give example. Name them

Winnowing food grains.



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16. Explain in your own words giving one example each :

Muscular force :



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17. Explain in your own words giving one example each :

Gravitational force :



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18. Explain in your own words giving one example each :

Mechaical force :



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19. Explain in your own words giving one example each :

Electrostatic force :



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20. Explain in your own words giving one example each :

The force of friction / Frictional force :



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21. Explain in your own words giving one example each :

Magnetic force :



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22. Why ? (Give reasons) :

Machines are oiled from time to time.



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23. Why ? (Give reasons) :

An object thrown upwards comes down after reaching a point.



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24. Why ? (Give reasons) :

Powder is sprinkled on a carrom board.



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25. Why ? (Give reasons) :

The ramp at a railway station has a rough surface.



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26. In what way are we different ? Muscular force and mechanical force



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27. Write answer to the given questions in your own words :

What are the things that can be done by applying force ?



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28. Write answer to the given questions in your own words :

What is meant by weight ?



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29. Write answer to the given questions in your own words :

What machines run on muscular force ?



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30. Write answer to the given questions in your own words :

Which force are acting upon an aeroplane taking off into the sky ?



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31. A uniform wooden plank, 5 m long and mass of 40 kg, is resting horizontally on two supports 0.5 m from each end. A boy weighing 45 kg stands on the plank, 1.5 m from one end. Find the reaction at the supports.



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