



## PHYSICS

# BOOKS - NAVNEET PHYSICS (MARATHI ENGLISH)

## SIMPLE MACHINES

### Question Bank

1. Use your brain power !

A needle is required for stitching cloth, We use

knife for cutting fruit. If the tip of a needle or the edge of a knife becomes blunt, then the needle does not penetrate the cloth and the knife does not cut into the fruit. Why is this so?



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2. Fulcrum in the centre and load and effort on the either side, is the lever of the fir. order.



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3. Fulcrum on one side, effort on the other side and the load in the centre is called the lever of the second order



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4. The effort in middle and fulcrum on one side with load on the other side is the lever of the third order.



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## 5. Can you tell ?

All of you must have enjoyed sitting on a giant wheel. What makes the giant wheel go round ?



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## 6. Can you tell

When a pedal of a bicycle is rotated, the wheel starts rotating. How does this happen ?



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7. Classify the given as a lever, a pulley and an inclined plane :

A wedge, a needle, a staircase, a slide, the wheel of a flagpole, nutcrackers, scissors, an opener, an axe, a crane, a knife.



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8. Fill in the blanks using the proper word and complete the statements :

The structure of a complex machine is ..... .





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**9.** Fill in the blanks using the proper word and complete the statements :

The ..... in the centre, the ..... on one side and the ..... on the other side make a lever of the first order.



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**10.** Fill in the blanks using the proper word and complete the statements :

The ..... in the centre, the ..... on one side and the ..... on the other side make a lever of the first order.



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**11.** Fill in the blanks using the proper word and complete the statements :

The structure of a complex machine is ..... .



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## 12. Fill in the blanks

Species A	Species B	Type of interaction	Example
+	-	.....	.....
+	+	.....	.....
+		Commensalism	.....



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13. Which machines will you use to do the given work ? Write their types.

- (1) To remove the lid of a tin.
- (2) To lift bricks to the top of a tall building.
- (3) cut vegetables.
- (4) To draw water from a well.
- (5) To hold a



papad for roasting. (6) To load a drum on a truck. (7) Trimming the nails.



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**14.** Write the answer to the given question in your own words :

What is meant by simple machines ?



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**15.** Write the answer to the given question in your own words :

How are machines maintained ?



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**16.** Write the answer to the given question in your own words :

What is meant by complex machines ?



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**17.** Write the answer to the given question in your own words :

What is a lever ? How are the orders of the lever determined ?



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**18.** Write the answer to the given question in your own words :

What is an Archimedes screw ? Where was it used for the first time ?



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**19.** Write the answer to the given question in your own words :

What is meant by simple machines ?



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**20.** Why is this so ?

Traveller's bags have wheels.



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**21. Why is this so ?**

Machines have to be maintained.



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**22. Fill in the blanks using the proper word and complete the statements :**

The structure of a complex machine is ..... .



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**23.** Name the levers mentioned in the given passage. Identify the fulcrum, load and effort of each and say which type of lever it is :

Ravi and Savita sit on a see saw in a garden. In the meantime, a gardener is trimming trees in the garden. He puts the leaves and other garbage in a wheelbarrow. Later, Ravi gets thirsty and he buys lemon sherbet. The sherbet seller cuts the lemon and squeezes it using a lemon squeezer. He puts small pieces of ice in the glass with the help of the tongs.



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**24.** Make a list of simple and complex machines that are used in your kitchen.



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**25.** Give the five names of the simple machines that are made by using wheel and axle.



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**26.** In which places have you seen a pulley ?



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**27.** Use your brain power!

Which tasks can be done using a lever ?



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**28.** Answer the given question orally :

Why is bicycle called a complex machine ?





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**29.** Answer the given question orally :

Which simple machines are present in a sewing machine ?



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**30.** A ball of mass 100 g released down an inclined plane describes a circle of radius 10 cm in the vertical plane on reaching the

bottom of the inclined plane. The minimum height of the incline is



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**31. Answer the given question orally :**

Explain the types of lever, giving one example of each of them.



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### 32. Use your brain power !

Some machines we use in our day to-day life are shown in the picture. What is the type of lever in each of these ?

Pliers



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### 33. Use your brain power !

Some machines we use in our day to-day life are shown in the picture. What is the type of

lever in each of these ?

see-saw



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**34. Use your brain power !**

Some machines we use in our day to-day life are shown in the picture. What is the type of lever in each of these ?

Wheelbarrow



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### 35. Use your brain power !

Some machines we use in our day to-day life are shown in the picture. What is the type of lever in each of these ?

Scissors



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### 36. Use your brain power !

Some machines we use in our day to-day life are shown in the picture. What is the type of

lever in each of these ?

A bar to remove a nail



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