

India's Number 1 Education App

# 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



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

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 ?

**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.



8. Fill in the blanks using the proper word and

complete the statements :

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



**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 ...... .

#### 12. Fill in the blanks

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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 bricksto the top of a tall building. (3) cut vegetables.(4) To draw waiter from a well. (5) To hold a

papad for roasting. (6) To load a drum on a

truck. (7) Trimming the nails.



14. Write the answer to the given question in

your own words :

What is meant by simple machines ?

15. Write the answer to the given question in

your own words :

How are machines maintained ?



#### 16. Write the answer to the given question in

your own words :

What is meant by complex machines ?

17. Write the answer to the given question in

your own words :

What is a lever ? How are the orders of the

lever determined ?



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 ?

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.

**21.** Why is this so ?

Machines have to be maintained.



22. Fill in the blanks using the proper word

and complete the statements :

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



**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.

#### /iew Text Solution

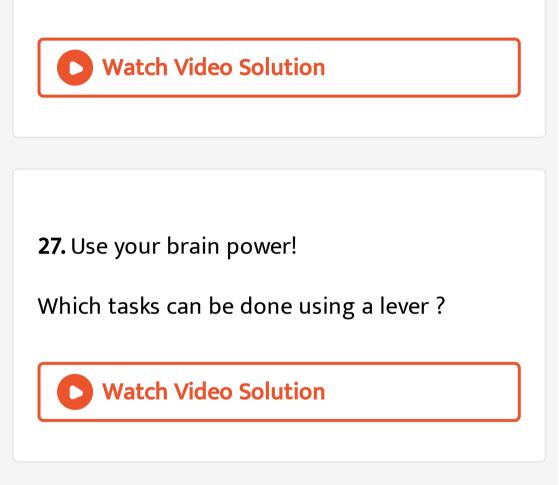
**24.** Make a list of simple and complex machines that are used in your kitchen.



25. Give the five names of the simple machines

that are made by using wheel and axle.

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



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

Why is bicycle called a complex machine ?



#### **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



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

Explain the types of lever, giving one example

of each of them.



**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



**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



**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

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