



# PHYSICS

## BOOKS - PEARSON IIT JEE

### FOUNDATION

#### MACHINES AND TOOLS

#### Test Your Concepts

1. \_\_\_\_\_ can be used to remove nails from a wall or a piece of wood



**Watch Video Solution**

2. Tools can not reduce the \_\_\_\_\_ done by the effort.



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3. The \_\_\_\_\_ tools should be cleaned and oiled after every use



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4. A \_\_\_\_\_ can be used to level the wet field  
before tranplantation



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5. Tools help us do work with less \_\_\_\_\_



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6. When the screw used to fix the object  
between the jaws is rotated in the clockwise

direction, then the \_\_\_\_\_ jaw moves towards  
\_\_\_\_\_



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7. To draw circles on the wood, \_\_\_\_\_ is  
used



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8. \_\_\_\_\_ is used to make holes in the metal  
rods



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9. The motion of the hand of a person while cutting a water pipe by means of a hack-saw is\_\_\_\_\_

A. to and fro

B. translatory

C. rotatory

D. data insufficient

**Answer: A**



**Watch Video Solution**

**10.** Which of the following is not a part of a hack saw ?

A. Blade

B. Fixed jaw

C. Handle

D. Metallic frame

**Answer: B**





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11. Sulphite is used to

A. work piece

B. tool

C. table

D. measuring instrument

**Answer: B**



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12. To break the mud rocks on the surface of the soil, \_\_\_\_\_ can be used

A. horrow

B. seed drill

C. leveller

D. wooden plank

**Answer: D**



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**13.** Which of the following is required to cut metal pipes by fixing is to a vice?

A. Table

B. Drill bit

C. Cutting plier

D. Hammer

**Answer: A**



**Watch Video Solution**

**14.** Selecte the odd one from the following list.

A. Hack-saw

B. Tin cutter

C. Vice

D. Drilling tool

**Answer: C**



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15. Which of the following does not have a metal part?

A. Hack-saw

B. Wooden plough

C. Tin cutter

D. None of the above

**Answer: D**



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16. The funnel in a seed drill is used to \_\_\_\_\_

- A. hold the seeds
- B. remove weeds in a fields
- C. to store lubricating oils
- D. None of these.

**Answer: A**



**Watch Video Solution**

17. If the screw of a vice is rotated in the clockwise direction, then \_\_\_\_\_

A. jaws move closer

B. jaws moves away

C. tool rotates in clockwise direction

D. tool rotates in anti-clockwise direction

**Answer: A**



**Watch Video Solution**

**18.** Which of the following tools does not have any jaws on it ?

A. Tin cutter

B. Multipurpose tool

C. Hack saw

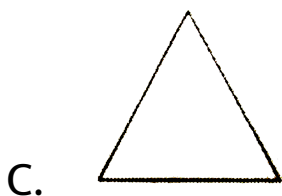
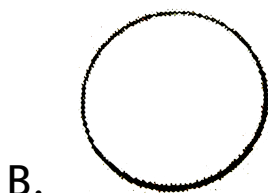
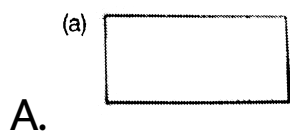
D. Vice

**Answer: C**



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19. Which of the following geometrical plane figure cannot be drawn on a wooden board only by using a divider ?



D. Both (a) and ( c )

**Answer: D**



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**20.** Which of the following tools cannot be fixed in the collet of a multipurpose tool?

A. file

B. poker

C. a screw driver

D. Hammer



**Answer: D**



**Watch Video Solution**

**21. Which of the following tools are useful in cutting a small piece of metal?**

A. Vice

B. Hack-saw

C. Screwdriver

D. Both (a) and (b)

**Answer: D**



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**22.** A tin-cutter is used to cut a thin metallic circular plat. Then the angle between the forces which are applied at both the handle is \_\_\_\_\_

A.  $30^\circ$

B.  $60^\circ$

C.  $180^\circ$

D.  $90^\circ$

**Answer: C**



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**23.** A farmer plough his field ,to \_\_\_\_\_

A. To prevent the surface from becoming  
hard

B. increase the evaporation of water from  
the surface of field

C. make the land dry

D. None of the above

**Answer: A**



**Watch Video Solution**

**24.** Motion of plough in a field is \_\_\_\_\_

A. translatory

B. rotatory

C. random

D. oscillatory

**Answer: C**



**Watch Video Solution**

**25.** Choose the correct alternateice (s) among the following statements

A. Seed drill is used to sow seeds

B. Four or five ploughs are attached to the palank of the sed drill to sow the seeds

deeper

C. Speed drill is also used to put manure

between the roots of the small plants

D. All the above

**Answer: D**



**View Text Solution**

**26.** Which of the following agricultural tools is used to sow the seeds in a field?

A. Horrow

B. Leveller

C. Plough

D. Wooded plank

**Answer: A**



**Watch Video Solution**

**27.** The use of metal balde in a plough is

-----

- A. to penetrate deep into the soil easily
- B. to give strength to the L-shaped log.
- C. to avoid breaking of wooden log when it strikes a stone
- D. All the above

**Answer: A**



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**28.** Which of the following agent (s) is (are) used to pull a plough?

A. Tractor

B. Bull

C. Man

D. Both (a) and (b)

**Answer: D**



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Column A		Column B	
A. To loosen the vice	( )	a. Seed drill	
B. Poker	( )	b. Vice	
C. Plough	( )	c. Breaks mud rocks	
D. Funnel	( )	d. Fix nails on a wall	
E. Working table	( )	e. Sharpen knives	
F. Spring	( )	f. Holes	
G. File	( )	g. Tin cutter	
H. Wooden plank	( )	h. Anti-clockwise direction	
I. Hammer	( )	i. Grooves in soil	
J. Hack saw	( )	j. To cut metals	

29.



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**Very Short Answer Type Questions**

1. How are wooden tools and metal tools maintained ?



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2. Name the tool which is used to put fertilizer near the roots of a plant



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3. What is the use of collet in a multipurpose tool ?



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4. Which of the following tools can be fixed in the collet of a multipurpose tool the drill holes in to a wooden plank?



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5. Write one use of a tin-cutter.



**Watch Video Solution**

6. What are the uses of jaws in a vice?



**Watch Video Solution**

7. What are the advantages of using seeds drills?



**Watch Video Solution**

8. Why is oil or grease applied to tools?



**Watch Video Solution**

9. What is the use of the long pole in a wooden plough?



**Watch Video Solution**

10. What are the different kinds hammers?



**Watch Video Solution**

**11.** What are the advantages of sowing seeds by using seed drill over that done by hand?



**Watch Video Solution**

**12.** What is the divider used for? Can it be used to draw circles?



**Watch Video Solution**

**13.** Which part of the wooden plough is made of steel?

What is the use of this part?



**Watch Video Solution**

**14.** What is the use of harrow?



**Watch Video Solution**

**15.** Write the use of a Vice







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**16.** What are the three different parts of a wooden plough ?



[Watch Video Solution](#)

**17.** What is the use of a leveller?



[Watch Video Solution](#)

**18.** Why is the tip of the screw driver magnetized?



**Watch Video Solution**

**19.** Why is the maintenance of tool very important?



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**Short Answer Type Questions**

1. Why are the advantages and disadvantages in using a vice?



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## Essay Type Questions

1. Describe a wooden plough



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2. Describe a hack-saw blade



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3. The funnel in a seed drill is used to \_\_\_\_\_



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4. Write a short note on MTP



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## Level 1

1. why an ordinary hammer can be used to remove nails from a wall or a piece of wood



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2. The diameter of a metallic plate can be measured by using a divider



**Watch Video Solution**

3. The hack-saw blad cannot be removed from a hack-saw



**Watch Video Solution**

4. A harrow can be used to elvel the wet field before transplanation



**Watch Video Solution**

5. A hammer is made of a soft metal



**Watch Video Solution**

6. A multipurpose tool can be used to cut wood



**Watch Video Solution**

7. When the screw used to fixed the object between the jaws is rotated in the anti-clockwise direction, both the jaws of the vice move towards each other.



**Watch Video Solution**

**8.** Poker is used to make the surface of a metal smoother.



**Watch Video Solution**

**9.** There are two screws in a vice



**Watch Video Solution**



10. To prevent tools from \_\_\_\_\_ oil is applied



**Watch Video Solution**

11. \_\_\_\_\_ is used to cut thin sheets of metal



**Watch Video Solution**

12. In a vice, screw is rotated in \_\_\_\_\_ direction to tighten the vice



[Watch Video Solution](#)

13. We can tighten or loosern screw by using

-----



[Watch Video Solution](#)

14. Which of the following tools can be fixd in the collet of a multipurpose tool the drill holes in to a wooden plank?



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**15.** Tools used to make article or to repair them are called \_\_\_\_\_



**Watch Video Solution**

**16.** Plough which is made up of iron or steel plates is called \_\_\_\_\_ plough



**Watch Video Solution**

17. \_\_\_\_\_ is used to level the surface of the soil



**Watch Video Solution**

18. \_\_\_\_\_ is used to remove weeds in a field



**Watch Video Solution**

19. \_\_\_\_\_ is used to sow the seeds



**Watch Video Solution**

**20.** Which of the following tools can be used to cut the metal plates of smallest thickness?

A. Tic cutter

B. Scissors

C. Piler

D. Hack-saw

**Answer: A**



**Watch Video Solution**

**21.** Which of the following tools has a spring attached to it?

A. Hack-saw

B. Vice

C. Tin cutter

D. Drilling tool

**Answer: C**



**Watch Video Solution**

22. The motion of the pulley while drawing water from a well is \_\_\_\_\_ about is fixed axis



**Watch Video Solution**

23. Which of the following can be used as a measuring tool?

A. Hammer

B. Divider

C. Vice

D. Hack-saw

**Answer: B**



**Watch Video Solution**

**24.** Which of the following is not a part of wooden plough?

A. Handle

B. Blade

C. Long pole

D. None of the above



**Answer: D**



**Watch Video Solution**

**25.** Which of the following is an example for agriculture tool?

A. screwdriver

B. wooden plough

C. divider

D. Hack-saw black

**Answer: B**



**Watch Video Solution**

**26.** Which of the following can be attached to multipurpose tool?

A. Poker

B. Chisel

C. Screw driver

D. Hammer

**Answer: D**



**Watch Video Solution**

**27. Which of the following is not a workshop tool?**

A. Divider

B. Hammer

C. Wooden plank

D. Vice

**Answer: C**



**Watch Video Solution**

**28.** The farmer controls the direction of the plough and depth of the soil ploughed, by the \_\_\_\_\_

A. handle

B. blade

C. Long pole

D. main plough

**Answer: A**



**Watch Video Solution**

**29.** A thin piece of steel with shapr teeth on one edge is known as \_\_\_\_\_

A. Tin cutter

B. hack saw blade

C. drill bit

D. Hammer

**Answer: B**



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**30.** Which among the following angles can be the maximum angle through which a divider can be stretched to draw a circle ?

A.  $180^\circ$

B.  $90^\circ$

C.  $45^\circ$

D.  $160^\circ$

**Answer: D**



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**31.** Which of the following tools can be fixed in the collet of a multipurpose tool to drill holes in to a wooden plank?

A. Chisel

B. Drill bit

C. Poker

D. All the above

**Answer: D**



**Watch Video Solution**

**32.** Choose the correct statements (s) among the following alternatives for a 'vice'

A. To loosen the vice, the handle of the screw should be rotated in a clockwise direction



- B. To tighten the vice, the handle of the screw should be rotated in an anti-clockwise direction
- C. The vice has only one movable jaw
- D. Both (a) and (b)

**Answer: C**



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**33.** The angle between the direction of applied forces and the main plough (or blade of plough), in a wooden plough is \_\_\_\_\_

A. greater than  $90^\circ$

B.  $90^\circ$

C.  $60^\circ$

D. less than  $90^\circ$

**Answer: D**



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**34.** The use of the handle of the plough, when the farmer uses on his field is \_\_\_\_\_

- A. to control the direction of plough
- B. to control the direction of bulls
- C. to control the depth of the soil ploughed
- D. Both (a) and (c)

**Answer: D**



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**35.** Which of the following agricultural tools is used to level the surface of the soil ?

A. Wooden plank

B. Harrow

C. Leveller

D. Plough

**Answer: C**



**Watch Video Solution**

**36.** Which of these is not a workshop tool?

A. Hammer

B. Tin cutter

C. Scale

D. Seed drill

**Answer: D**



**Watch Video Solution**

**37.** Which of the following agricultural tools is used to sow the seeds in a field?

A. Seed drill

B. Plough

C. Harrow

D. Both (b) and (c)

**Answer: A**



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**38.** Choose the correct statements in case of multipurpose tools

A. We can perform multiple tasks by fixing different tools in its collet.

B. It is not possible to drill holes by using multipurpose tool

C. We can fix a carpenters hand -saw in this tool and cut wood.

D. Both (a) and (c)

**Answer: D**



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**39.** Which of the following is modern scientific machine which can perform multiple tasks in agriculture?

- A. Bullock Cart
- B. Improved plough
- C. Tractor
- D. Computer

**Answer: C**





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**40.** The motion of the handle of the plough while ploughing is \_\_\_\_\_

A. to and fro

B. translatory

C. vibratory

D. Cannot be determined

**Answer: A**



41.

Column A		Column B
A. Collet	( )	a. Vice
B. To make surfaces smoother	( )	b. Multipurpose tool
C. Long pole	( )	c. Leveller
D. Heavy wooden frame	( )	d. Wooden plough



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## Level 2

1. Why do we use a sharp continuous metal blade for cutting a mango and a blade with

many small teeth for cutting metals ?



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2. Sriharsha had a doubt as to why the head of a screw driver is made of plastic material and not metal. Clarify his doubt.



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3. A thick metallic cylindrical rod which is to be cut when placed between the jaws of a 'vice'

the handle to rotated through  $4 \times 360^\circ$ , if the distance moved by the movable jaws is 0.5 cm per rotation then calculate the radius of the rod. (Assume that initially the jaws are in contact with each other)



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4. A leveller with one metre long metal strip is used to level the surface of the soil. If the farmer takes the leveller from one end to

another end of the field of length 265m hen calculate the area of the field which is levelled.



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5. The movable jaw of a vice moves through a distance of 7mm for one complete rotation of the handle. Through how many rotation shold the handle be rotated so that it holds a metal plate of thickness 3.5 cm firmly.



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6. A leveller with a 1.5 meters long metallic strip is used to level an area of 45 square metres. Then calculate the length of the field which is levelled.



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7. Venkat went to a factory workshop where he saw hot metallic square plates. He measured the surface area of the plates. How did he do it?



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8. What is the use of spring in a tin cutter?



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9. Rahul, by using a hack saw blade, was cutting metal pipes to supply water to house. What will happen if he starts moving the hack saw blade very fast over the metal, due to lack of time



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10. Why does an axe has a curved sharp edge?

A. What are the advantages and disadbantages in using a vice?

B.

C.

D.

**Answer:**



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**11.** Why are the advantages and disadvantages in using a vice?



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**12.** Komali found that most of the agricultural tools her father uses are made up of wood. Explain why it is so.



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**Text Your Concepts**

1. \_\_\_\_\_ can be used to remove nails from a wall or a pice of wool



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2. Tools can not reduce the \_\_\_\_\_ done by the effort.



**Watch Video Solution**

3. The \_\_\_\_\_ tools should be cleaned and oiled after every use



**Watch Video Solution**

4. A \_\_\_\_\_ can be used to level the wet field before transplantation



**Watch Video Solution**

5. Tools help us do work with less \_\_\_\_\_



[Watch Video Solution](#)

6. When the screw used to fix the object between the jaws is rotated in the clockwise direction, then the \_\_\_\_\_ jaw moves towards \_\_\_\_\_



[Watch Video Solution](#)

7. To draw circles on the wood, \_\_\_\_\_ is used





[Watch Video Solution](#)

8. \_\_\_\_\_ is used to make holes in the metal rods



[Watch Video Solution](#)

9. The motion of the hand of a person while cutting a water pipe by means of a hack-saw is \_\_\_\_\_

A. to and fro

B. translatory

C. rotatory

D. data insufficient

**Answer: A**



**Watch Video Solution**

**10.** Which of the following is not a part of a hacksaw?

A. Blade

B. Fixed jaw

C. Handle

D. Metallic frame

**Answer: B**



**Watch Video Solution**

**11. Collet is used to hold\_\_\_\_\_**

A. work piece

B. tool

C. table

D. measuring instrument

**Answer: B**



**Watch Video Solution**

**12.** To break the mud rocks on the surface of the soil, \_\_\_\_\_ can be used

A. harrow

B. seed drill



C. leveller

D. wooden plank

**Answer: D**



**Watch Video Solution**

**13.** Which of the following is required to cut metal pipes by fixing is to a vice?

A. Table

B. Drill bit

C. Cutting plier

D. Hammer

**Answer: A**



**Watch Video Solution**

**14. Select the odd one from the following list.**

A. Hacksaw

B. Tin -cutter

C. Vice

D. Drilling tool

**Answer: C**



**View Text Solution**

**15.** Which of the following does not have a metal part?

A. Hacksaw

B. Wooden plough

C. Tin-cutter

D. None of the above

**Answer: D**



**Watch Video Solution**

**16.** The funnel in a seed drill is used to \_\_\_\_\_

A. hold the seeds

B. remove weeds in a field

C. to store lubricating oils

D. None of these

**Answer: A**



**Watch Video Solution**

**17.** If the screw of a vice is rotated in the clockwise direction, then \_\_\_\_\_

- A. jaws move closer
- B. jaws move away
- C. tool rotates in clockwise direction
- D. tool rotates in anti clockwise direction

**Answer: A**



**Watch Video Solution**

**18.** Which of the following tools does not have any jaws on it?

- A. Tin cutter
- B. Multipurpose tool
- C. Hacksaw
- D. Vice

**Answer: C**



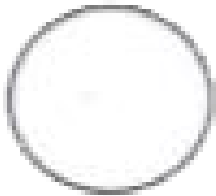
**View Text Solution**

**19.** Which of the following geometrical plane figure cannot be drawn on a wooden board only by using a divider ?

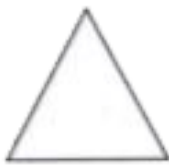
**A.**



**B.**



C.



D. Both a and c

**Answer: D**



**Watch Video Solution**

**20.** Which of the following tools cannot be fixed in the collet of a multipurpose tool?

A. a file



B. poker

C. a screw driver

D. hammer

**Answer: D**



**Watch Video Solution**

**21.** Which of the following tools are useful in cutting a small piece of metal?

A. Vice

B. Hacksaw blade

C. Screw driver

D. Both a and b

**Answer: D**



**Watch Video Solution**

22. A tin-cutter is used to cut a thin metallic circular plat. Then the angle between the forces which are applied at both the handle is

\_\_\_\_\_

A.  $30^{\circ}$

B.  $60^{\circ}$

C.  $180^{\circ}$

D.  $90^{\circ}$

**Answer: C**



**Watch Video Solution**

**23.** A farmer plough his field ,to \_\_\_\_\_

- A. prevent the escape of moisture, present in the surface of field
- B. increase the evaporation of water from the surface of field
- C. make the land dry
- D. None of the above

**Answer: A**



**Watch Video Solution**

24. Motion of plough in a field is \_\_\_\_\_

A. translatory

B. rotatory

C. random

D. oscillatory

**Answer: C**



**Watch Video Solution**

**25.** Choose the correct alternative(s) among the following statements

A. Seed drill is used to sow seeds.

B. Four or five ploughs are attached to the plank of the seed drill to sow the seeds deeper.

C. Speed drill is also used to put manure near the roots of the small plants.

D. All of the above

**Answer: D**



**Watch Video Solution**

**26.** Which of the following agricultural tools is used to remove weeds in a field?

A. Harrow

B. Leveller

C. Plough

D. wooden plank

**Answer: A**



**Watch Video Solution**

**27.** The use of metal balde in a plough is

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A. to penetrate deep into the soil easily.

B. to give strength to the L-shaped log.

C. to avoid breaking of wooden log when it  
strikes a stone.



D. All of the above

**Answer: A**



**Watch Video Solution**

**28.** Which of the following agent (s) is (are) used to pull a plough?

A. Tractor

B. Bull

C. Man

D. Both a and b

**Answer: D**



**Watch Video Solution**

**29.** Match the entries given in Column A with the appropriate ones in Column B

Column A		Column B	
A. To loosen the vice	( )	a. Seed drill	
B. Poker	( )	b. Vice	
C. Plough	( )	c. Breaks mud rocks	
D. Funnel	( )	d. Fix nails on a wall	
E. Working table	( )	e. Sharpen knives	
F. Spring	( )	f. Holes	
G. File	( )	g. Tin-cutter	
H. Wooden plank	( )	h. Anti-clockwise direction	
I. Hammer	( )	i. Grooves in soil	
J. Hacksaw	( )	j. To cut metals	



**View Text Solution**

**30.** How are wooden tools and metal tools maintained ?



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**31.** Name the tool which is used to put fertilizer near the roots of a plant



**Watch Video Solution**

**32.** What is the use of collet in a multipurpose tool ?



**Watch Video Solution**

**33.** Name few tools which can be fixed on a multipurpose tool.



**Watch Video Solution**

**34.** What is a tool?



**Watch Video Solution**

**35.** Write one use of a tin-cutter.



**Watch Video Solution**

**36.** What are the uses of jaws in a vice?



**Watch Video Solution**

**37.** What are the advantages of using seeds drills?



**Watch Video Solution**

**38.** Why is oil or grease applied to tools?



**Watch Video Solution**

**39.** What is the use of the long pole in a wooden plough?



**Watch Video Solution**

**40.** What are the different kinds hammers?



**Watch Video Solution**

**41.** Why are the advantages and disadvantages in using a vice?



**Watch Video Solution**

**42.** Between the maintenance of agriculture tool or workshop tool, which is difficult? Why?



**Watch Video Solution**



**43.** What are the advantages of sowing seeds by using seed drill over that done by hand?



**Watch Video Solution**

**44.** Write the use of a divider.



**Watch Video Solution**

**45.** Which part of the wooden plough is made of steel?

What is the use of this part?



**Watch Video Solution**

**46.** What is the use of harrow?



**Watch Video Solution**

**47.** Write the use of a Vice



**Watch Video Solution**

**48.** What are the three different parts of a wooden plough ?



**Watch Video Solution**

**49.** What is the use of a leveller?



**Watch Video Solution**

**50.** Why is the tip of the screw driver magnetized?



**Watch Video Solution**

**51.** Why is the maintenance of tool very important?



**Watch Video Solution**

**52.** Describe a wooden plough



**Watch Video Solution**

**53.** Describe a hack-saw blade



**Watch Video Solution**

**54.** Describe a seed -drill.



**Watch Video Solution**

**55.** Write a short note on a wooden plough  
and an improvised plough.



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## Concept Application Level 1

1. why an ordinary hammer can be used to remove nails from a wall or a piece of wood



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2. The diameter of a metallic plate can be measured by using a divider



**Watch Video Solution**

3. The hack-saw blad cannot be removed from a hack-saw



**Watch Video Solution**

4. A harrow can be used to elvel the wet field before transplanation



**Watch Video Solution**

5. A hammer is made of a soft metal



**Watch Video Solution**

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**Watch Video Solution**

7. When the screw used to fixed the object between the jaws is rotated in the anti-clockwise direction, both the jaws of the vice move towards each other.



**Watch Video Solution**



**8.** Poker is used to make the surface of a metal smoother.



**Watch Video Solution**

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**Watch Video Solution**

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**Watch Video Solution**

11. \_\_\_\_\_ is used to cut thin sheets of metal



**Watch Video Solution**

12. In a vice, screw is rotated in \_\_\_\_\_ direction to tighten the vice



**Watch Video Solution**

**13.** We can tighten or loosern screw by using

-----



**Watch Video Solution**

**14.** Two make a hole in a wooden plank,

----- is fixed in the multipurpose tool.



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**15.** Tools used to make article or to repair them are called \_\_\_\_\_



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**16.** Plough which is made up of iron or steel plates is called \_\_\_\_\_plough.



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17. \_\_\_\_\_ is used to level the surface of the soil



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18. \_\_\_\_\_ is used to remove weeds in a field



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19. \_\_\_\_\_ is used to sow the seeds.



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**20.** Which of the following tools can be used to cut the metal plates of smallest thickness?

A. Tin cutter

B. Scissors

C. Plier

D. Hacksaw

**Answer: A**



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**21.** Which of the following tools has a spring attached to it?

A. Hacksaw

B. Vice

C. Tin cutter

D. Drilin

**Answer: C**



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22. The motion of the pulley while drawing water from a well is \_\_\_\_\_ about its fixed axis

A. translatory

B. rotatory

C. oscillatory

D. to and fro

**Answer: B**



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**23.** Which of the following can be used as a measuring tool?

A. Hammer

B. Divider

C. Multipurpose tool

D. Hacksaw

**Answer: B**



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24. Which of the following is not a part of wooden plough?

A. Handle

B. Blaxe

C. Long pole

D. None of the above

**Answer: D**



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**25.** Which of the following is an example for agriculture tool?

A. Screwdriver

B. Wooden plough

C. Divider

D. Hacksaw black

**Answer: B**



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**26.** Which of the folllowing can be attached to multipurpose tool?

A. Poker

B. Chisel

C. Screw driver

D. Hammer

**Answer: D**



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27. Which fo the following is not a workshop tool?

A. Divider

B. Hammer

C. Wooden plank

D. Vice

**Answer: C**



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28. The farmer controls the direction of the plough and depth of the soil ploughed, by the

-----

A. handle

B. blade

C. Long pole

D. main plough

**Answer: A**



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**29.** A thin piece of steel with shapr teeth on one edge is known as \_\_\_\_\_

A. Tin cutter

B. Hacksaw blade

C. drill bit

D. hammer

**Answer: B**



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**30.** Which among the following angles can be the maximum angle through which a divider can be stretched to draw a circle?

A.  $180^\circ$

B.  $90^\circ$

C.  $45^\circ$

D.  $160^\circ$

**Answer: D**



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**31.** Which of the following tools can be fixed in the collet of a multipurpose tool to drill holes into a wooden plank?

A. Chisel

B. Drill bit

C. Poker

D. All of the above

**Answer: D**



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**32.** Choose the correct statement(s) among the following alternatives for a vice.

A. To loosen the vice the handle of the screw should be rotated in a clockwise direction.

B. To tighten the vice the handle of the screw should be rotated in an anti clockwise direction.

C. The vice has only one movable jaw.

D. Both a and b

**Answer: C**



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**33.** The angle between the direction of applied forces and the main plough (or blade of plough), in a wooden plough is \_\_\_\_\_

A. greater than  $90^\circ$

B.  $90^\circ$

C.  $60^\circ$

D. less than  $90^\circ$

**Answer: D**



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**34.** The use of the handle of the plough, when the farmer ploughs his field is \_\_\_\_\_.

A. to control the direction of plough

B. to control the direction of bulls

C. to control the depth of the soil  
ploughed

D. Both a and c

**Answer: D**



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**35.** Which of the following agricultural tools is used to level the surface of the soil ?

A. Wooden plank

B. Harrow

C. leveller

D. Plough

**Answer: C**



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**36.** Which of the following is not a workshop tool?

A. Hammer

B. Tin cutter

C. Scale

D. Seed drill

**Answer: D**



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**37.** Which of the following agricultural tools is used to sow the seeds in a field?

A. Seed drill

B. Plough

C. Harrow

D. Both b and c

**Answer: A**



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**38.** Choose the correct statements in case of  
mulipurpose tools



A. We can perform multiple tasks by fixing different tools in its collet.

B. It is not possible to drill holes by using multipurpose tool.

C. We can fix a carpenters hand saw in this tools and cut wood.

D. Both a and c

**Answer: D**



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**39.** Which of the following is modern scientific machine which can perform multiple tasks in agriculture?

- A. Bullock cart
- B. Improvised plough
- C. Tractor
- D. Computer

**Answer: C**



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**40.** The motion of the handle of the plough while ploughing is \_\_\_\_\_.

A. to and fro

B. translatory

C. vibratory

D. Cannot be determined

**Answer: A**



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41. Match the entries given in Column A with the appropriate ones in Column B

T.S.S	
Column A	Column B
A. Collet	( ) a. Vice
B. To make surfaces smoother	( ) b. Multipurpose tool
C. Long pole	( ) c. Leveller
D. Heavy wooden frame	( ) d. Wooden plough



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**Concept Application Level 2**

1. Why do we use a sharp continuous metal blade for cutting a mango and a blade with many small teeth for cutting metals ?



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2. Sriharsha had a doubt as to why the head of a screw driver is made of plastic material and not metal. Clarify his doubt.



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3. A thick metallic cylindrical rod which is to be cut when placed between the jaws of a 'vice' the handle is rotated through  $4 \times 360^\circ$ , if the distance moved by the movable jaws is 0.5 cm per rotation then calculate the radius of the rod. (Assume that initially the jaws are in contact with each other)



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4. A leveller with one metre long metal strip is used to level the surface of the soil. If the

farmer takes the leveller from one end to another end of the field of length 25m, then calculate the area of the field which is levelled.



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5. The movable jaw of a vice moves through a distance of 7mm for one complete rotation of the handle. Through how many rotation should the handle be rotated so that it holds a metal plate of thickness 3.5 cm firmly.



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6. A leveller with a 1.5 meters long metallic strip is used to level an area of 45 square metres. Then calculate the length of the field which is levelled.



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7. Venkat went to a factory workshop where he saw hot metallic square plates. He measured the surface area of the plates. How did he do it?



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8. What is the use of spring in a tin cutter?



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9. Rahul, by using a hack saw blade, was cutting metal pipes to supply water to house. What will happen if he starts moving the hack saw blade very fast over the metal, due to lack of time



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**10.** Why does an axe has a curved sharp edge?



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**11.** Why are the advantages and disadvantages in using a vice?



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12. Komali found that most of the agricultural tools her father uses are made up of wood. Explain why it is so.



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