APPENDIX B
THE FINAL PRINT OF THE TEST

MECHANICAL COMPREHENSION TEST

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Directions

1. Do not open the booklet until you are told to do so.

2. Do not write anything in this booklet.

3. Answers to all the questions given in this booklet have to be made on a separate answer sheet.

4. Do not ask anything once the actual test is started.

5. Since the questions in this booklet are based on pictures, give answers to questions after critically observing the picture of each question and thoughtfully considering it.

6. If you can not give an answer to a question, leave it, and take the next question.

7. Do the work as quickly as possible.
અંત્રિક અર્થનોક્ષ કલોટી

(MECHANICAL COMPREHENSION TEST)

સૂચના

1. કેટેવાં ન આવે લાં હુધી કે પુષ્કળા જોડવાના લખી.
2. આ પુષ્કળા ક્ષેત્ર હોય વાહે જાળીના લખી.
3. આ પુષ્કળાં અલગ અલગ વાસના ક્ષેત્ર જુઓ તબાગણ ઉપર જાળીના લખી.
4. કેટેવાં ન આવે લાં હુધી જાળીના લખી.
5. આ પુષ્કળાં કીઝટી કેટલી અઠળી "પુષ્કળ ક્ષેત્ર હોય વાહે જાળીના વિષયું જીલબલેલા" આવાયત કરીને વાસના અધિકપ્રદવે ઉતારી ઃાપળી.
6. કેટેવાં ન આવે તો તે કઠી કરી પણ જાળી લખી.
7. અને તેની ઉમારી આલ્યી કામ કરીને.

(MECHANICAL COMPREHENSION TEST)
આ પૂર્વિકમાં કેટલા પણ લખ્યું નથી.

સભાજન વેરી યુધ જવાબદારોમાં આવી.

ઉતાર્ક્રમ:

આ ક્ષેત્રમાં કેવા પરકાર હતો તે વિષયે તે બીજા વિરોધી પક્ષે ફક્ત વિશે છે. તમારે શું હોવાં છે તે સમયભાર નીચેની વિભાગો ઉચારણ કરી લેખાએ છે. વિભાગે તે હાથીઓ પર કપડા અચુંબાં અતાને છે અને પ્રક્રિયા ફંઝી છે, "કયા આખીલામાં હોસી ઉપર કપડાં કપડાં જણાવી સમજાયો?") "C-ને હાર કેવા ઉપર કપડા સુખાતાં સંપૂણ લાગશે.") આધારે બચી કપડાં કપડા સુખાતાં સંપૂણ લાગશે. હારાયે વાચકને વિદ્યાશીલે વિવિધ બાબતો બીજું વધારું લાગશે. તેથી લુંબ જવાબદારી તમે ઉલ્લાસમાં મેળવી અંશ અને જો અને A B અને C સાથે A ની આસપાસ આ આ ભાગે કેવા હોય છે.

A B C

A

C-ને હોસી ઉપર કપડાં સુખાતાં

A B

સંપૂણ લાગશે.
There are several pictures in this test and questions have been asked about them. Look at the example given below. In the picture the clothes are shown to render dry on two strings, and the question asks, "In which figure will the clothes be dried rapidly?" "C - It will take equal time for the clothes to become dry on both the strings." The clothes to render dry in figure B will get dried faster because the humidity is less on a cloudless day, whereas on a cloudy day, the clothes are not dried on account of more humidity in the atmosphere. So, in the answer sheet against question X, encircle B out of A B and C like: ______________A (B) C

X

In which figure will the clothes be dried rapidly?

C - It will take equal time for the clothes to become dry on both the strings.

NOW LOOK AT THE PRACTICE EXAMPLE Y ON THE OPPOSITE PAGE
FOR PRACTICE

Now, as in the sample example, indicate the answer against the Practice Example Y on your answer sheet by encircling whichever is the correct answer from among A, B, and C.

Y

Which glass will be filled rapidly with water?

A - Neither will be filled
B - Both will be filled at the same time
C - Both will be filled at the same time.

In the same manner, in this booklet, there are many more pictures accompanied by questions on them. Read each question very carefully, study the picture critically, and indicate the correct answer by encircling it in the separate answer sheet. Remember well, you have to find the correct answer from among the three alternatives A, B, and C.

DO NOT OPEN THIS PAGE UNTIL YOU ARE TOLD TO DO SO
3

મહાપત્રા ભાગ

જેવાં જેનું પાલણ છે તેમ નીચે ખંભાળી વ પ્રશ્નો જટલે તમારાં કાફીપણામારા, મહાપત્રા ભાગ મધ્યાં પ્રવાસ સામે A, B અને C ભાગી કે આમ આવાસ લેવાં તેની આવાસ કરતાં દેખાતી આપી. હા.

![Diagram](image)

A

B

અને શાસ્ત્રી પશ્ચિમમાં કદાચ તે નીચે ખંભાળી કતવાં, જેવીએ નીચીઓ આભાસ કરી, લચી આવાસના સામા કાળણી આવાસ લીધાં હોવાં. જાણ માટા રૂણગણે હાથ પાસ હોવાના હાથ પાસ ભાગી A B અને C ભાગી કોણુ આવાસમાં મધ્યાં પ્રવાસ સાથે કાળણ શીખવવાની છે.

કેવી રીતે ન આવે ત્યાં સુધી આ પાંચ ઇસ્તાનગ મદ્દ.
1. Which ring will take more turns in a hundred meter ring-race?
   C - Both the rings will take the same number of turns.

2. Which book-rack will easily support more books?
   C - Both will easily support more books.

3. The wheels of which tractor will sink deeper into the mud?
   C - The wheels of both the tractors will sink equally down into the mud.

4. Which wheel will utilize the most, the energy of the flowing water and rotate?
   C - Both the wheels will equally utilize the energy of the flowing water and rotate.
Having climbed upon which stool for arranging the tins full of corn on a shelf, is there greater possibility of falling down?

C - In both the cases there is equal possibility of falling down.

Three boys have taken start from the same starting line 's'. The boy running in which manner will cover minimum distance and cross the finish 'f'?

When grasped by the handle, which door will require less effort in shutting or opening it?

C - When grasped by the handle, equal effort will be required in shutting or opening both the doors.

Which electric lamp having the same thin metal filament of equal diameter will give more light?

C - Both the lamps will give equal light.
9. In climbing up by which ladder will the porter feel less exhaustion?

C - In climbing up by either ladder the porter will feel equal exhaustion.

10. The face design of which high-speed engine is more preferable?

C - The face designs of both the engines are equally preferable.

11. The two electric furnaces have the same type of coil of equal thickness. On which of them will tea be prepared more quickly?

C - It will take equal time to prepare tea on both the furnaces.

12. The telegraph wires of which arrangement are more likely to break in severe cold of winter?

C - In both the arrangements of wire, there is equal possibility of breaking.
13. In which figure is the magnet shown to attract the nails correctly?

C - In both the figures it is shown to attract the nails correctly.

14. Two men are carrying iron cylinders filled with oxygen. Who will feel more weight?

C - Both will feel equal weight.

15. The clothes on which wire tied to the opposite walls of a room will dry earlier?

C - The clothes on both the wires will take equal time to dry.

16. Two rain-gauges are placed at different places in open terrace. Which will give wrong measure?

C - Neither will give wrong measure.
17
When wheel 'x' rotates in the direction as shown in the picture, in which direction will wheel 'y' rotate?

C - In either direction.

18
After reaching two kilometers and eight kilometers height, which of the two planes having similar construction can be flown with greater speed?

C - Both can be flown with equal speed.

19
When wheel 'x' turns in the direction as shown in the figure, in which direction will the wheel at the right hand end move?

C - In either of the direction.

20
With which type of toothed wheel could a cycle be run faster?

C - A cycle with either type of toothed wheels could be run with equal speed.
21

Which iron bar is more likely to break in practicing pull-ups in the gymnasium?

C - There is equal possibility for both the bars to break.

22

Which pickle jar receiving slight thrust is more likely to overturn?

C - There is equal possibility of overturning for both the jars.

23

In coming up from the bottom to the surface of the water, which will be the condition of the bubble?

24

When the shaft of smaller gear rotates in the direction as shown in the figure, in which direction will the shaft of the larger gear move?

C - In either direction.
25

Which street lamp will shed light rays over larger area along the road side?

C - Both the street lamps will shed light rays over equal area along the road side.

26

Which jar will contain more Ghee (Boiled butter)?

C - Both the jar will contain equal quantities of Ghee.

27

Which movie-house has defective arrangement of fans?

C - Neither has defective arrangement of fans.

28

When wheel 'x' moves in the direction as shown in the figure, in which direction will wheel 'y' move?

C - In either direction.
29
In which of the two reels is there longer thread of the same type?

C - In both, the thread is of equal length.

30
Which of the two types of huts - one with solid and another with perforated ceiling, will be less cold in winter?

C - Both of them will be equally cold in winter.

31
If two cars having the same type of machine design but different shapes run with equal speed and cover the distance of fifty kilometers against wind, which will consume more fuel?

C - Both will consume equal fuel.

32
Which screw will be harder to push up to its full length into the wood?

C - Both the screws will be equally hard to push up to their full lengths.
Two men are shaving at night who will be able to see his face properly and shave well?

C - Both will be able to see their faces properly and shave well.

34

The screwed lid of which vacuum flask will be plugged quickly?

C - It will take equal time to plug both the lids.

35

By placing a mango at which point will greater force be needed to cut it?

C - At either point equal force will be needed to cut it.

36

When salt is added to water in the glass, where will the egg stay?

A - Will sink down to the bottom under water.
B - Will come up to the surface of water.
C - Will stay where it is.
37. In which pot will the lamp continue to burn well?
   C - In both the pots the lamp will continue to burn well.

38. If two tables are put at a place on the entire surface of which small stones and gravel have fixed after rainy season, which will be more unsteady?
   C - There is equal possibility for both the tables to be unsteady.

39. The cycle having which type of toothed wheels can be run faster?
   C - Cycle with both the types of toothed wheels can be run with equal speed.

40. At which place the ball will have minimum velocity?
41

In order that the car may not slip off, while negotiating the curve, which side of the road should have slightly higher level?

C - Both the sides should be kept equally high.

42

Which beaker will be filled quickly with water?

C - Both the beakers will be filled in equal time.

43

The emery of which grinding wheel can be turned faster?

C - The emery of both the grinding wheels can be turned with equal speed.

44

In the light of the electric lamp the writing on which board will be read well at night?

C - The writing on both the boards will be read equally well.
45
In which glass is the temperature of liquid higher?
C - The liquid is at equal temperature in both the glasses.

46
In which bowl could oil be poured more quickly?
C - Oil could be poured with equal quickness in both the bowls.

47
Which iron rod will keep the signal in horizontal direction?
C - Both the rods will keep the signal in horizontal direction.

48
When the coat is hung at the middle of the string, which hook will have more tension on it?
C - Both the hooks will have equal tension of the coat.
49

When the handle of a can crusher is turned in the direction as shown in the picture, which wheel will rotate in the same direction as that of 'x'?

50

The clock of which tower is more likely to have gone out of order?

C - Neither is likely to have gone out of order.

51

Which tent is more likely to be uprooted in violent wind-storm?

C - There is equal possibility for both to be uprooted.

52

At which place will the audience clearly hear the speech of the leader?
53 Which shaft will rotate fastest?

54 Between the two men pulling the roller in different ways, who will have to put in less effort?

C - Both will have to put in equal effort.

55 The two swings are made out of the same kind of wood. The board of which swing has a greater possibility of crushing?

C - Boards of both the swings have equal possibility of crushing.

56 If the same picture is hung from two different positions, which nail will have more tension on it?

C - Both the nails will have equal tension on them.
Which bottle will be filled more quickly with kerosene?

C - Both the bottles will be filled at the same time.

Which chimney is more likely to crack due to trickling of cold water?

C - There is equal possibility for both the chimneys to crack.

By sailing in which boat will the place 'x' near the temple on the opposite bank of the river be reached quickly?

To wind the cotton thread on the spindle in the direction as shown in the picture, in which direction should the bigger wheel be turned?

C - In either direction.
61
When the shaft rotates in the
direction as shown in the figure,
in which direction will the toothed
wheel rotate?
C - In either direction.

62
Which screw-driver will require
less effort to unscrew a screw?
C - Both the screw-drivers
will require equal effort to
unscrew a screw.

63
If two loads are hung in turn
from the same spring 'x', which
will weigh more?
C - Both will weigh equal.

64
Which beam supported by two
pillars is more likely to break
due to heavy weight of persons
sitting on the swing?
C - There is equal possibi-
ity for both the beams to
break.
65
By keeping the mirror of the compound microscope in which position, will the object be observed clearly?

C - By keeping the mirror in either position, the object will be observed with equal clarity.

66
When a piece of stone is weighed in water and oil, according to which figure, will the indicators of the spring balances show the reading?

67
What will happen when all the ice in a glass is melted?

A - Some water from the glass will overflow.
B - The glass will remain completely filled with water without overflowing.
C - The level of water will lower down up to the immersed portion of ice in water.

68
The wires tied to which telegraph post with the earth will give it more support?

C - The wires tied to both the posts with the earth will give equal support to them.
69

A special type of tin as shown in the figure is partly filled with water and closed tightly. If it is suspended to move freely and strongly heated, in which direction will it rotate?

C - It will rotate in either direction.

70

The iron legs of which bench are more likely to break due to the heavy weight of the sitters?

C - There is equal possibility for the legs of both the benches to break.

71

In order to push the black counter in the pocket, at which point should the striker be placed and hit?

C - At either point.

72

After giving equal force, which wheel will rotate longer?

C - Both will rotate equal time.
73
Which type of ground floor paved with bricks, will be more durable?
C - Both will have equal durability.

74
If an experiment is performed to measure the atmospheric pressure on the top of a mountain, according to which figure will the mercury level be indicated in the two apparatus?

75
Which of the two cans filled to the brim, will weigh more?
C - Both will weigh equal.

76
Which candle will continue to burn unto its half portion?
C - Neither will continue to burn unto its half portion.