MECHANICAL COMPREHENSION TEST

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 cannot give an answer to a question, leave it, and take the next question.

7. Do the work as quickly as possible.
यांत्रिक अर्थमोद्य क्षीरोटी

सूत्र
1. केलेपास्त न आते त्या सुधी आ चुसिंक राजारी नहीं।
2. आ चुसिंक उपर करी लागू दर्जनी नहीं।
3. आ चुसिंकांचा आपेक्षा, पण २ अधिनियम जत्तूक जुळा वनायण्याचा उपर आपल्या होतो।

१ हे वेळी तपशी पेडी करुया नहीं।

२ आ चुसिंकांचा स्थल उपरीत अधिक शुभेच्छा हाच ३५ मिळेला प्रवीणा

३ आयुष्य व शाळाची अस्वस्थता हाच ३५ मिळेला प्रवीणा

४ आयुष्य व शाळाची अस्वस्थता हाच ३५ मिळेला प्रवीणा

५ आयुष्य व शाळाची अस्वस्थता हाच ३५ मिळेला प्रवीणा

६ आयुष्य व शाळाची अस्वस्थता हाच ३५ मिळेला प्रवीणा

७ आयुष्य व शाळाची अस्वस्थता हाच ३५ मिळेला प्रवीणा
આ પુસ્તકમાં કયા પ્લેગ લાગોલ નથી

તમારા ઉતરે જુદી જવાબપત્રમાં આપી

સદર્પણ

આ કાદમીએ દેખાં વિચરો દયાં છે અને તે વિચારો વિચારે પ્રક્રિયા પૂછીછ છે. તમારા શું કરવાનું છે તે સમજવા. નીકળવાર ઓ વિદારણ થાય. વિચારો શે તારી ઉપર કપા સૂક્લા અસરથી છે, અને પ્રકાર પૂછવો છે, "કયા આકાશમાં તારી ઉપર સૂક્લા કપા જવાની સુખારી?" \"C-અને તારી ઉપર કપા સૂક્લા સરણી સમ લાગી.\" આકાશ B માં સૂક્લા કપા જવાની સુખારી કાઢાય છે, વસ્તિ વસ્તિમાં નીકળવાની સૌથી અમલાય વચ્ચુ હેલા કપા જવાની સારણી નથી. તેથી જુદી જવાબપત્રમાં તમે વિદારણ મહેનો પ્રક્રિયા વચ્ચું વેરો હોય કે A B અને C-માંથી B-ની આસપાસની પ્રક્રિયા વચ્ચું વેરો હોય A B C.

\[\text{હોય વેરો એવો હોય A B C}\]

\[\text{હેલા A એવો હોય A B C}\]

\[\text{હેલા C એવો હોય A B C}\]

\[\text{તેથી સામેના-પાણા ઉપર મહાત્મા મહેના પ્રેત વ જુયો.}\]
There are several pictures in this test and questions have been asked about them. In order to understand what you have to do, look at the example X given below. In the picture the clothes are shown drying on two strings, and the question asks, "In which figure will the clothes dry more rapidly?" C - It will take equal time for the clothes to dry on both the strings." The clothes to dry in figure B will dry faster because the humidity is less on a cloudless day, whereas on a cloudy day, the clothes do not dry 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 dry more rapidly?

C - It will take equal time for the clothes to dry on both the strings.
આ પુસ્તકામાં કંઈ પક્ષ કાળખો નથી

તમારા ઉપરે હુલા અવાજીને આવી રહ્યું?

ડિનિફાઇશન

આ કૃત્રમમાં ઇસ્લામ ક્યાં રહ્યું છે અને તે વિશે વિશે આધી કૃત્રિમ ગુણવત્તા પૂર્ણકૃત છે. તમારી શ્રુતિ કરવાનું છે તે સમજવા નીચેના વિધાન સુધિક્રમે. વિશેષ જે માટે ગુણવત્તા ઉપર કપડા સુકીબાળા આગળ કરે અને અમલ પૂર્ણક્રમે \"હવા આકૃતિમાં તારી ઉપર સુકીબાળા કપડા વખતી સુકાયી?\" \"C-એ તારી ઉપર કપડા સુકીબાળા સારે સમૂહ સાથે\" આકૃતિ કરી સુકીબાળા કપડા વખતી સુકાયી / કરાણા વિસ્તારાની વિસ્તારા વિસ્તારા મેળવામાં આવું હોય છે, કારણ વેનિયાનોના વેનિયાન વેનિયાના વેનિયાના વેનિયાન મેળવામાં આવું બધું હાનાશી કપડા વખતી સુકાયી નથી. તેથી આ અવાજીને તમે ડિનિફાઇશન માટે \"માટે \" સામે \"A \" અને \"C \" નથી \"B \" ની આસપાસ આ માટે \"બાદળ હોવો. \"A \"B \"C

હવે સામેના પ્લાના ઉપર મહાદૂતા માટે \"A \" સુખી.
यांत्रिक अर्थ्योध्व कसोटी

सूचना

1. कहनामां न जी त्यां सूचित अचलेखा नहीं.
2. अचलेखा उपर कृति पषु सजना नहीं.
3. अं चलेखामां आपेक्षा अत्यन्त अभाव अथवा जवाब कविता उपर आपना नहीं.
4. कसोटी शरू घरा पढी कथु पूँछो नहीं.
5. अं चलेखामां विष उपरवी मधु पुकेला ढाके हरेक प्रश्ना विषपुरी अस्वस्थपनुमा अस्वस्थपनु दोनों अनामी.
6. जे केह कम न आए तो ते छोटी-छोटी बातें बोले.
7. अने नतली अवस्थी काम करो.
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

When the rubber balloon goes very high in the sky, which will be its shape?

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
માનાસથી આધી

કદાશ્રુ અમાં હોવ તની નમની વા પણ તેમની તમારા કનાખપંભી, માનાસથી નીતિ વા પણ તેમની સામી બી બી બી સૌથી કીમતી નામના ક્ષ ખ્યાન પૂર્વાંને તેની આસપાસ પાણી હાથિને આધી.

વ

સારાં સારાં આસપાસ સુધી કરીને કરતી રીતા આસપાસ છે?

આ પ્રમાણે પુસ્તકમાં પ્રશ્ન, પશુણ મૂલ્યો ભલ તે પુસ્તક અને ફક્ત છે. તમે હેઠળ પ્રતિ પૂર્ણપાણી સાયમાંથી વાંચો, મીટની અન્ય વાંચટી અસપાસ કરી, ખૂબ વધારે સાયમાંથી સાયમાંથી આસપાસ પાણી તરફથી સાયમાં સાયમાં સાયમાં બાબત કરી શકાશો. 

કદિભાંત ત આધી વા સુધી આ પાણી ઇયરપ્લી પણ.
1. १०० मीटर दूरी तक बाँसाच्या किरकिरीला कसा पैको भरू आला समजावा कसे?
   C – जाने पैको सरचा आला समजावा कसे.

2. कसे बोटी पर्यंत सारी रीती चं वसूली रेहरी सकती?
   C – जाने बोटी पर्यंत सारी रीती चं वसूली रेहरी सकती.

3. लक्ष्मी मलिकाणा अंचलनाची जनापदार्ता तेया आम्हाळा त्यां कसा अंचलन केलेले राहेला चं असे?
   C – जाने अंचलनाचा आम्हाळा त्यां सरचा असे.

4. कसा मास्टर्स राखून तेंट त्यां सारी रीती संभवतो राखेला?
   C – जाने मास्टर्स राखेला तेंट निकाहणी रीती असिल्या राखेला.
5
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.

6
The two swings are made out of the same kind of wood. The board of which swing has a greater possibility of being crashed?

C - Boards of both the swings have equal possibility of being crashed.

7
At which place will the audience clearly hear the speech of the leader?

8
In which of the two reels is there longer thread of the same type?

C - In both, the thread is of equal length.
9

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.

10

Which movie-house has defective arrangement of fans?

C - Neither has defective arrangement of fans.

11

In which cradle, when a baby is rested and given a long swing, is there greater possibility of falling down?

C - There is equal possibility in both for falling down.

12

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.
13

At which place the electric bulb will bring the electric consumption bill less?

C - At either place there will be the same bill.

14

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.

15

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.

16

By keeping eye at which place can the level of medicine in the measuring glass be read exactly?

C - From neither place it can be read exactly.
17
Which glass will be filled rapidly with water?

C - Both will be filled at the same time.

18
After giving equal force, which wheel will rotate longer?

C - Both will rotate for equal time.

19
In which glass is the temperature of liquid higher?

C - The liquid is at equal temperature in both the glasses.

20
To wind the cotton thread on the spindle in the direction as shown in the picture, in which direction should the bigger wheel of Ranhetia be turned?

C - In either direction.
21
Which of the two cans filled to the rim, will weigh more?
C - Both will weigh equal.

22
Which iron rod will keep the signal in horizontal direction?
C - Both the rods will keep the signal in horizontal direction.

23
Construction of which lamp will keep it continue to burn?
C - Neither will continue to burn.

24
Which type of ground floor paved with bricks, will be more durable?
C - Both will have equal durability.
Two men are shaving at night. Who will be able to see his face properly and shave well?

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

By holding the thermometer from which place is there greater possibility for error in reading the mercury level?

C - By holding it from either place there is no possibility of error.

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.

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

C - There is equal possibility of overturning for both the jars.
29
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.

30
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.

31
In order to push the black counter in the pocket, at which point should the striker be placed and hit?
C - At either point.

32
Having climbed upon which table, for arranging the tins full of corn on a shelf, is there greater possibility of tumbling down?
C - In both the cases there is equal possibility of tumbling down.
33. From which windows of the bigger building could sun-light be obtained for a longer time?

C - Sun-light could be obtained for equal time from both the windows.

34. Which jar will contain more Ghee (boiled butter)?

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

35. Which way will cause less exhaustion in reaching the temple situated at the top of the hill?

C - Both ways will cause equal exhaustion.

36. If two loads are hung in turn from the same spring 'X', which will weigh more?

C - Both will weigh equal.
37
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 possibility for both the beams to break.

38
The iron legs of which bench are more likely to break due to the heavy weight of on sitters?

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

39
In which bowl could oil be poured swiftly?

C - Oil could be poured with equal swiftness in both the bowls.

40
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.
41
In the light of the electric lamp the writing on which board will be read well?

C - The writing on both the boards will be read equally well.

42
Which glass will be filled rapidly with water?

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

43
The clothes on which wire tied to the opposite walls of a room will get dried earlier?

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

44
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.
45
In climbing up by which ladder will the porter feel less exhaustion?

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

46
When a wet rubber plate is hard pressed on the inverted bowl and lifted, from which direction will it remain stuck to the bowl due to the air pressure?

47
When grasped by the handle, which door will require less effort in shutting or opening?

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

48
While heating water of the test tube by holding it from which place with hand will cause more burn?

C - Holding it from either place and heating the water will cause equal burn.
49
Which pendulum clock will go faster than the other in one hour?
G - Both the clocks will show the same time after one hour.

50
If the same picture is hung from two different positions, which nail will have more stress on it?
C - Both the nails will have equal stress on them.

51
Two empty tins are of the same make but one is quite new and another is rusted. Which will weigh more?
C - Both the tins will weigh equal.

52
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.
By closing his which eye the person standing behind the Bara kh will not see the electric bulb?

A - Left
B - Right
C - Either

Which bedstock of the bedstead is more likely to break from near the leg?

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

The butterfly caught in which jar will live longer?

C - The butterflies in both the jars will live for the same time.

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

C - It will take equal time to prepare tea on both the furnaces.
57. 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 equal cold in winter.

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

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

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

C - In both the arrangements of wire, there is equal possibility of breaking.

60. A set of four experiments is arranged in two ways in different sequences. In the arrangement of which set will there be error in any one of the experiments?

C - In arranging the experiments according to the sequence in both ways, there will not be any error.
61
Which type of image of a distant tree will be formed on the wall due to the glass window?
C - Image of the tree will not be formed.

62
When the handle of a cane crusher is turned in the direction as shown in the picture, which wheel will rotate in the same direction as that of 'X'?

63
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 implements?

64
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.
When wheel 'X' rotates in the direction as shown in the picture, in which direction will wheel 'Y' rotate?

C - In either direction.

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'?

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

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

C - Both the screws will be equally hard to push upto their full lengths.
By pulling which rope can the tree be fallen farthest from the road?

C - By pulling both the ropes, the tree can be fallen farthest from the road.

Given a long swing, which wooden parrot is more likely to topple down?

C - There is equal possibility for both to topple down.

Which screw-driver will require less effort to unscrew a screw?

C - Both the screw-drivers will require equal effort to unscrew a screw.

Which candle will continue to burn unto its half portion?

C - Neither will continue to burn unto its half portion.
The wheels of which tractor will sink deeper into the mud?

G - The wheels of both the tractors will sink equally down into the mud.

Which load will require more effort to be lifted up?

C - Both will require the same effort to be lifted up.

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

C - Both the lamps will give equal light.

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

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

With which type of toothed wheels will a cycle be harder to run?

C - Equal effort will be required to run the cycles having the two types of wheels.
What will happen when all the **ice in a glass** is melted?

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

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

- Neither is likely to have gone out of order.

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?

- In either direction.

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

- Both the sides should be kept equally high.
The screwed lid of which vacuum flash will be plugged quickly?

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

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

When wheel 'X' moves in the direction as shown in the figure, in which direction will wheel 'Y' move?

C - In either direction.

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

C - Neither will give wrong measure.
When the ring of the right pan is slightly slided on the lever, who will be cheated?

A - Customer.  
B - Merchant.  
C - Neither.

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

C - Both will feel equal weight.

At which place the ball will have minimum velocity?

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.
90
Which shaft will rotate fastest?

91
When the two vacuum flasks are kept open after filling them with equally heated tea, which of them will get cooled earlier?

C - It will take equal time for tea to get cooled in both the vacuum flasks.

92
In which figure the arrangement of swing-bars will cause less stress on the rings fixed in the ceiling?

C - In both the cases, there will be equal stress on the rings.

93
In which direction will the winds blow?

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

C - In either direction.

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

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

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.

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.
Which beaker will be filled quickly with water?

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

Which boat-man is rowing the boat away from the temple by applying minimum effort?

When a piece of stone is weighed in water and oil, according to which figure, will the indicators of the spring balances be demonstrated?
101

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

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

102

Which bottle will be filled more quickly with kerosene?

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

103

Whose weight is more?

A - Of the two children.
B - Of the mother.
C - The weights of the mother and the two children are equal.
104

\[
\text{સૂરતી આ ખાલ્કુલતને બહેઠી વિધાને અલગ કરી રહેશે? \\
A-અસપત્તે પણ પુણી 'ષ્ટી' કેઠકી જણાવતી જાણુ, 'પુણી' કેઠકી હર.} \\
B-અસપત્તે પણ પુણી 'ષ્ટી' કેઠકી જણાવતી જાણુ, \\
પણ પુણી પ્રહાર. \\
C-અસપત્તે પણ પુણી 'ષ્ટી' કેઠકી વસ્ત્રે.}
\]

105

\[
\text{કેઠકી ખાલ્કુલતને બીજી વિધાને વધુ જણાવતી જાણુ પણ વાપરી પડે?} \\
C-ગણતંત્રે બીજી વિધાને વધુ જણાવતી જાણુ પણ વાપરી પડે.}
\]

106

\[
\text{જીવારપુણી પાર કરવા ક્ષેટ્રી ખાલ્કુલત સ્તરી ગેંબેલે જણાવું જણ વાપરું પડે?} \\
C-ગણતંત્રે સ્તરી ગેંબેલે સરૂર જણ વાપરું પડે.}
\]

107

\[
\text{ક્ષેટ્રી ખાલ્કુલતને પાર કરવા પણ અપણી ખેતી ખાલ્કુલતી પડે?} \\
C-ગણતંત્રે પણ અપણી ખેતી ખાલ્કુલતી પડે.}
\]