



Somalwar Academy's Annasaheb Somalwar Memorial Initiative of Rewarding Excellence

A SEARCH OF INNATE TALENT

Class VII

Round II – Major Test

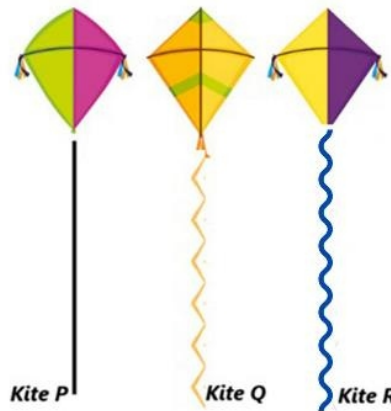
Max Marks : 100

Duration : 2 hrs.

General Instructions :

- All questions are compulsory
- Each question carries 2 Marks
- There is no negative marking
- Please read and follow the instructions on OMR sheets while solving this test

1) Which kite has the longest string?



- (a) Kite P (b) Kite Q **(c) Kite R**
- (d) The strings are of the same length in the 3 kites.

2) What is a sensible estimate for the amount of liquid in a teaspoon?



- (a) 0.5L (b) 5L (c) 50ml **(d) 5 ml**

3) Which word best describes the organism's role in its ecosystem?

Organism Traits

1. Good night vision
2. Good depth perception
3. Very sensitive hearing
4. Fast, silent flight
5. Sharp talons
6. Hooked beaks

- (a) mutualist (b) parasite **(c) predator** (d) producer

4) Which of the options is the correct logo?

Amul

(a)

Amul

(b)

Amul

(c)

Amul

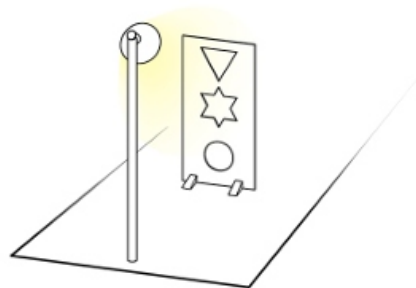
(d)

5) Image shows part of a poster made by a social healthcare organization in the context of COVID-19. Which of the statements is/are true?



- (a) It effectively communicates physical distancing.
- (b) It is gender neutral. It promotes mask usage.
- (c) It effectively communicates all Covid-19 related safety measures.
- (d) Both A and B

6) A 10 cm tall card with some cut-outs is placed on a long table in front of a lamp in a dark room as shown in the figure. The lamp is 15 cm tall and is placed 15 cm in front of the card. Which of the options shows the correct shadow of the card?



(a)



(b)



(c)



(d)

7) Our teacher is a(n) _____ person, so she easily captivates the interest and attention of the students while she is teaching.

- (a) Obstinate (b) Humorous **(c) enthralling** (d) Elegant

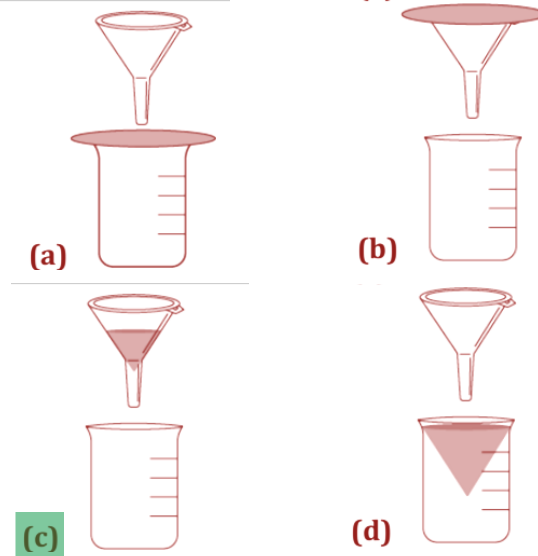
8) Which of the option(s) describe(s) the films shown below in the correct order?



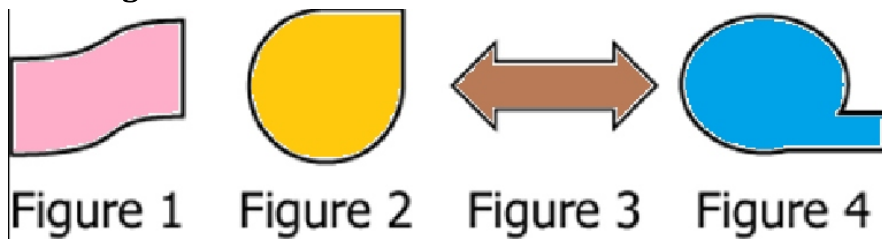
- (a) Animation, Adventure, Interview, Fantasy, Comedy, Documentary
(b) Comedy, Adventure, Documentary, Science-Fiction, Mystery, Action
 (c) Animation, Adventure, Documentary, Action, musical, War
 (d) Comedy, Drama, Action, Science-Fiction, Romance, Thriller

9) The table shows the materials required for a filtration process. How should these materials be arranged in order to separate the insoluble material from water?

(1) A beaker (2) A funnel (3) Filter paper



10) Which of the following figure if cut along any axis does not result into two symmetrical images?



- (a) Figure 1 (b) Figure 2 (c) Figure 3 **(d) Figure 4**

- 11) The evolution of modes of transport is shown in the image. Choose the option which depicts the major breakthrough



- (a) The size of the vehicle
 (b) Use of animals for pulling
 (c) Use of wheels in the vehicle
 (d) Motorized vehicle

- 12) The diagram below shows a girl conducting an experiment. Which of the following statements are safety hazards shown in the diagram?

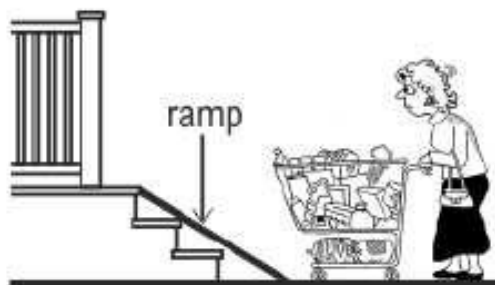


- (1) Not wearing eye protection.
 (2) Long hair that is not tied up.
 (3) Looking into the test tube of liquid while heating it.
 (4) Not closing the air hole before lighting up the burner.
 (5) Placing ethanol, a flammable substance, near the burner.

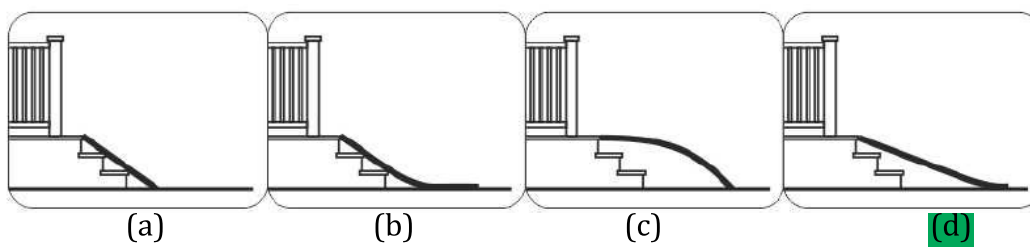
Options :-

- (a) 2 and 3 only
 (b) 1, 2 and 5 only
 (c) 1, 2, 3 and 5 only
 (d) 1, 2, 3, 4 and 5

- 13) Suguna uses a ramp to push her groceries in a trolley from the street up the front stairs of the building.



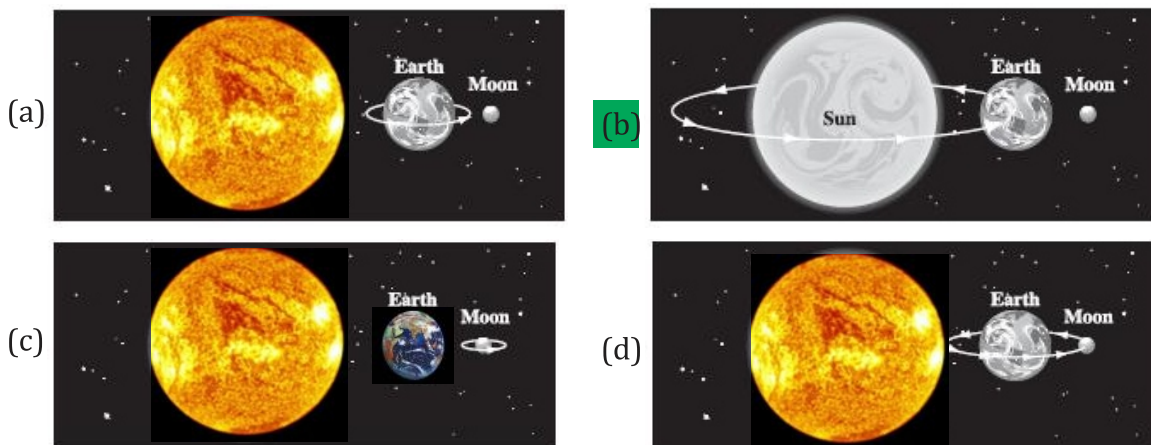
Which of the following ramps would make it easier for Suguna to push her trolley up the stairs compared to the ramp shown above?



14) In 1901, the SS Port Morant became the world's first refrigerated banana ship. It was equipped with carbon dioxide refrigeration. It could carry 23,000 bunches of bananas from Jamaica to England at a controlled temperature. What impact did cargo ship refrigeration systems have on the banana industry?

- (a) It made transportation of bananas to overseas markets quicker.
- (b) It made bananas ripen by the time they arrived at their destination.
- (c) It made bananas sweeter than bananas transported without any cooling.
- (d) It made shipment of bananas to faraway ports possible with little spoilage.

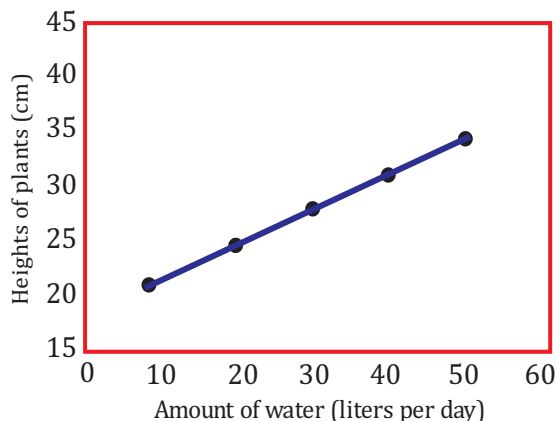
15) Which of the following diagrams represents one year on Earth?



16) A police chief is concerned about reducing the speed of autos. He thinks several factors that may affect the automobile speed. Which of the following is a hypothesis he could test about how fast people drive?

- (a) The younger the drivers, the faster they are likely to drive.
- (b) The larger the autos involved in an accident, the less likely people are to get hurt.
- (c) The more policemen on patrol, the fewer the number of auto accidents.
- (d) The older the autos the more accidents they are likely to be in.

17) A study is being done on the amount of water needed to grow plants. Five small garden plots are given different amounts of water. After two months the height of the plants is measured. The data are shown on the graph. What is the relationship between the variables?



- a) Increasing the height of the plants increases the amount of water.

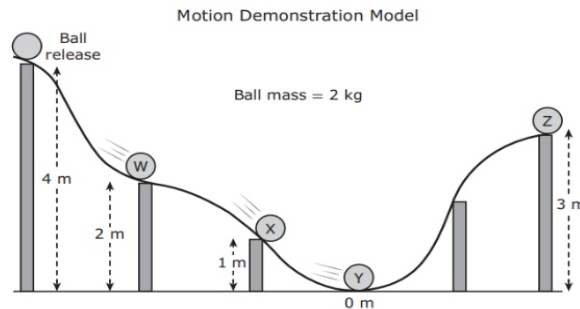
- b) Increasing the amount of water increases the height of the plants.
- c) Decreasing the amount of water increases the height of the plants.
- d) Decreasing the height of the plants decreases the amount of water.

18) Barbie sits on one end of a see-saw and Bulbul sits on the other. Barbie goes up in the air and Bulbul stays down on the ground. In order for Bulbul to make Barbie move down, she should



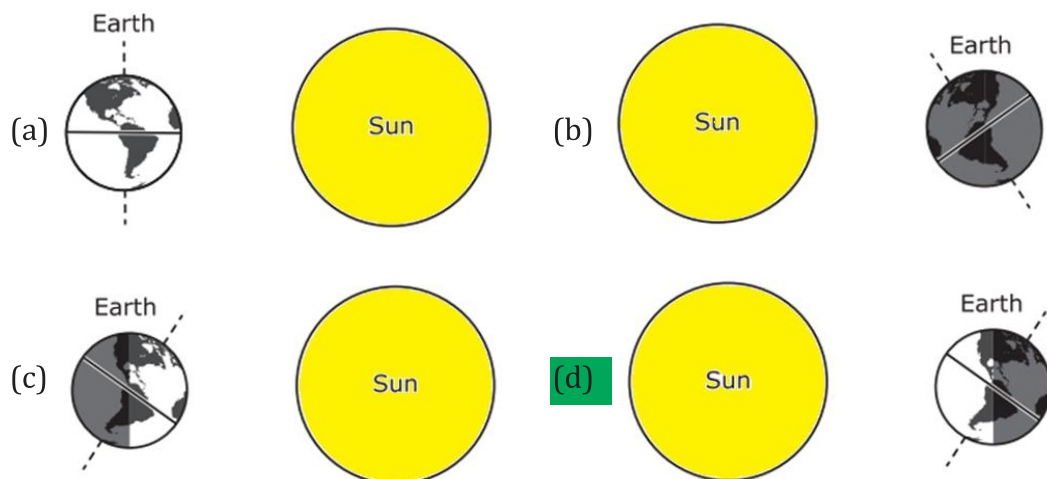
- (a) stand on the board.
- (b) push down on the board.
- (c) move towards the center.
- (d) move away from the center.

19) A demonstration helps students understand a principle of roller coaster design. Which of the following options correctly describes the ball's speed?



- (a) The ball has more speed at position X than at position Y.
- (b) The ball has more speed at position Y than at position W.
- (c) The speed of the ball is equal at position W and Z.
- (d) The speed of the ball are greatest at position Z.

20) A student draws models of Earth and the sun in different positions. Which drawing should be used to represent summer in the Southern Hemisphere?



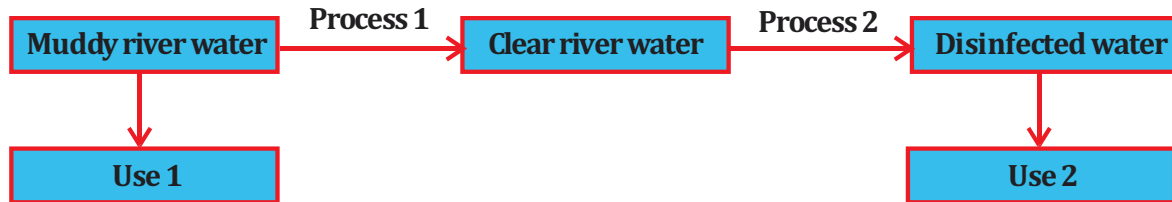
- 21) An engineer wants to fit a steel washer on to a steel rod. The rod is slightly too big to fit into the hole of the washer.



How can the engineer fit the washer on to the rod?

- (a) Cool the washer and then place it over the rod.
- (b) Cool the washer and rod to the same temperature and then push them together.
- (c) Heat the rod and then place it in the hole in the washer.
- (d) Heat the washer and then place it over the rod.

- 22) The diagram shows the uses and treatment processes of muddy river water.



Which row correctly identifies uses 1 & 2 and processes 1 & 2?

	Use 1	Use 2	Process 1	Process 2
A	Drinking	Watering crops	Chlorination	Filtration
B	Drinking	Watering crops	Filtration	Chlorination
C	Watering crops	Drinking	Chlorination	Filtration
D	Watering crops	Drinking	Filtration	Chlorination

- 23) Which of the following options does not describe the effect of the image below?



- (a) Rhythm
- (b) Hypnosis
- (c) Spiral
- (d) Continuation

- 24) Match the images of leaves given below with names of the plants that have closest resemblance to them:



- (a) (1) tamarind (2) Neem (3) Coriander (4) Mint
(b) (1) Coriander (2) Tamarind (3) Neem (4) Mint
 (c) (1) Mint (2) Neem (3) Coriander (4) Tamarind
 (d) (1) Coriander (2) Mint (3) Neem (4) Tamarin

25) A cook wants to prepare some food to be cooked by 1.15p.m. He uses an oven with an automatic timer that can be set to switch on and off at certain times. The oven needs to be switched on for 2 hours 10 minutes. At which time does the oven need to switch on?

- (a) 11.05a.m.** (b) 11.25a.m. (c) 3.05p.m. (d) 3.25p.m.

26) In a cricket match Ravindra scored more than Prithvi but less than Rishabh. If Prithvi scored 74 runs then which of the following cannot be true?



(a) Ravindra scored 90 runs



(b) Rishabh scored 70 runs

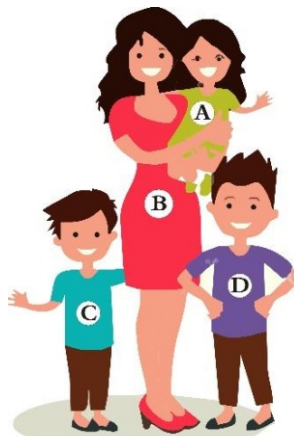


(c) Ravindra scored 75 runs



(d) Rishabh scored 100 runs

27) In the given figure A is B's daughter, B is C's mother, D is C's brother. How is D related to A?



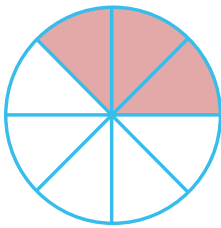
- (a) Son (b) Uncle **(c) Brother** (d) Father

28) Harish and Juhi went to Laddakh. On Monday they recorded minimum temperature -4°C and on Wednesday they recorded minimum temperature -1°C . Based on this information choose the statement which is true?

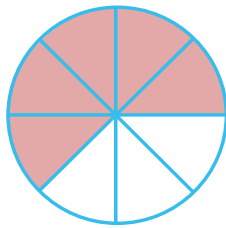
- (a) Monday was hotter than Wednesday
- (b) Temperature difference of Monday and Wednesday was -9°C
- (c) Wednesday was cooler than Monday
- (d) None of these

29) The part of cake is eaten and showed as shaded part in the figure given below.

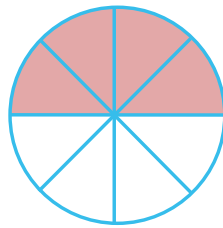
Choose the cake in which eaten part is greater than $\frac{6}{8}$?



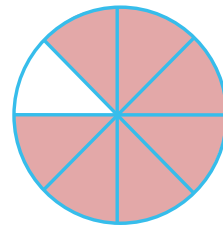
(a)



(b)

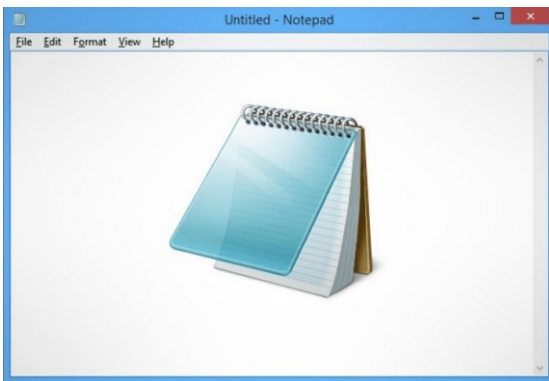


(c)

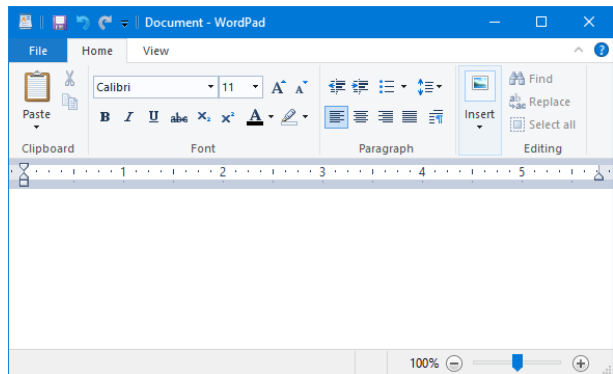


(d)

30) Which of the following is helpful in writing short stories letters and short notes and also used to insert as pictures hyperlinks?



(a) Notepad



(b) Wordpad



(c) Paint

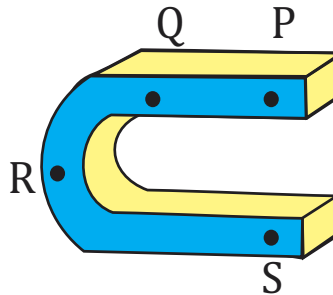
(d) All of these

31) Find improper statement regarding sprinkle irrigation.



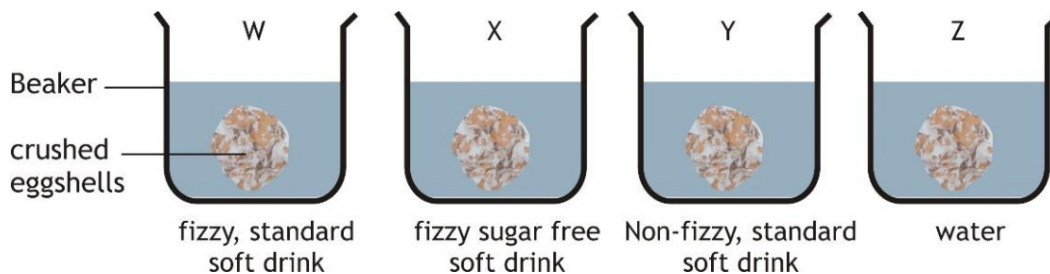
- (a) Sprinklers are used in this method.
- (b) In this method water is given to every plant separately.
- (c) Water is given to circular area by this method.
- (d) This method is cheaper than the drip irrigation.

32) If a horse shoe magnet is kept on a paper and iron fillings are sprinkled over It. On which point of magnet, minimum iron fillings will stick?



- (a) P
- (b) Q
- (c) R
- (d) S

33) Mayank wants to find out whether soft drinks contribute to tooth decay. He knows that human teeth and eggshells are made of similar substances, so he set up an investigation using eggshells. Mayank found that the mass of the eggshells in beakers W and X decreased, but the mass of the eggshells in beakers Y and Z did not.



In this Experiment, why did Mayank crush the eggshells?

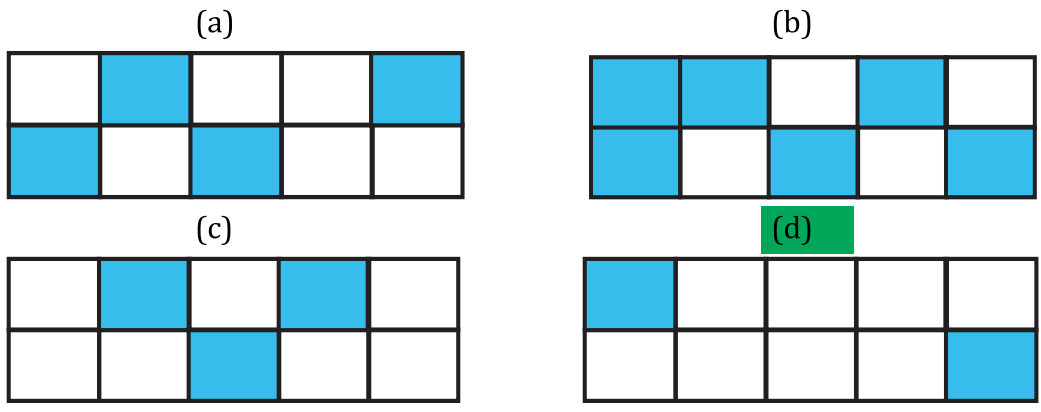
- (a) to make it easier to compare the amounts of eggshells in the beaker
- (b) to make sure the eggshells were completely covered by liquid
- (c) to increase the surface area of eggshells in contact with the liquid
- (d) none of these

34) In the given picture, which forces are acting at points 'P' 'Q' 'R' respectively.



- (a) Gravitational, muscular, frictional
- (b) Gravitational, mechanical, muscular
- (c) Muscular, frictional, gravitational**
- (d) Frictional, gravitational, muscular.

35) Which one of the following options show proportion of oxygen in the air?







36) Moon on Shukla Ekadashi (11th day of fortnight of 'waxing moon') will be _____ moon on Krishna Ekadashi (11th day of fortnight of 'waning moon')

- (a) Same as
- (b) smaller than
- (c) greater than**
- (d) different in different lunar moon

37) Which joint is telling lie?

- (a) Hinge joint: I can move only in one direction
- (b) Ball and socket joint: I can move in more than one directions.
- (c) Gliding joint: I can move in 360°.**
- (d) Immovable joint: I can not move.

38) Some icons used on mobile are given in column I and some expressions are given in column II. Match them properly.

	Column-I		Column-II
(I)		(P)	Cheer up
(II)		(Q)	Congratulation / well wishes
(III)		(R)	Appreciation
(IV)		(S)	Regards

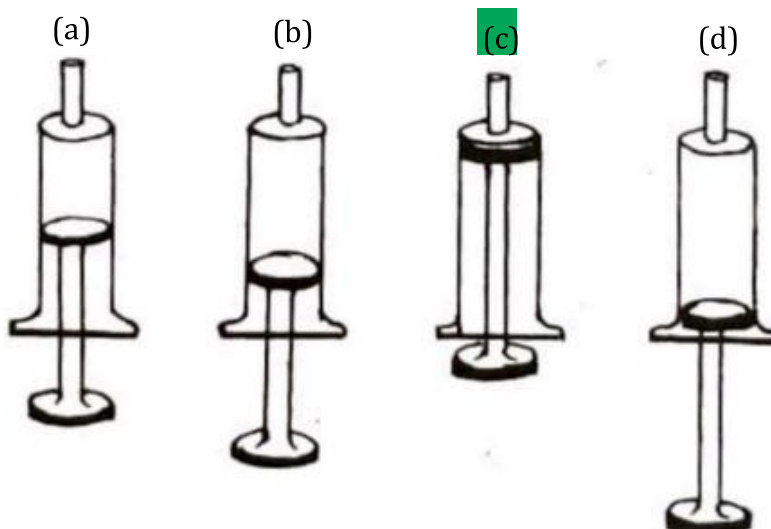
(a) (I-S), (II-Q), (III-P), (IV-R)

(b) (I-S), (II-P), (III-R), (IV-Q)

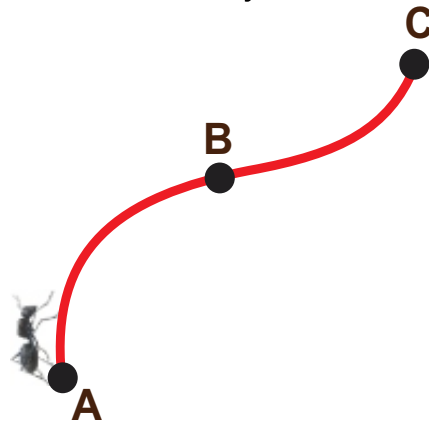
(c) (I-S), (II-R), (III-P), (IV-Q)

(d) (I-S), (II-P), (III-Q), (IV-R)

39) With different position of piston, figures of syringes are given here. In which figure maximum medicine can be sucked in it.

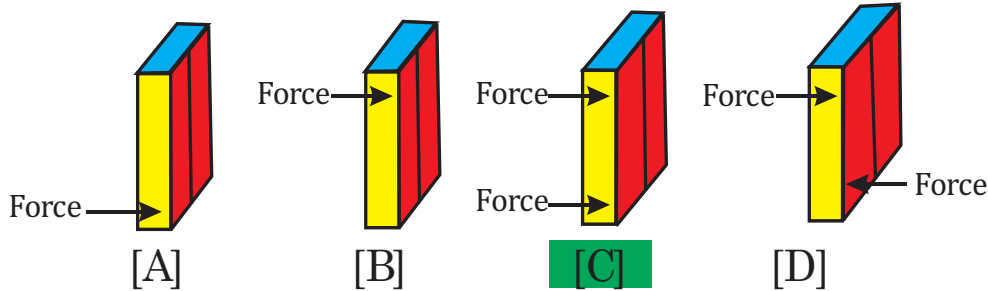


40) An ant moves are shown in the diagram. Which of the following instrument can be used to determine the distance covered by ant?



- (a) A 15 cm scale and a meter scale
- (b) A meter scale
- (c) Hand open and a meter scale
- (d) Thread and a meter scale

41) A lofty cupboard is to be shifted. Which of the following options represent appropriate method ?



42) 'Food can' is made up of tin. What do you think is the most important reason of choosing tin?

- (a) It is light-weight. So it will be easy to carry
- (b) It is shiny, so it attracts the customer.
- (c) It does not react easily with food component inside the can.
- (d) It is cheap so it will lower the price of food.

43) Four toy cars are parked with bar magnets on their roofs. Which pair will collide?

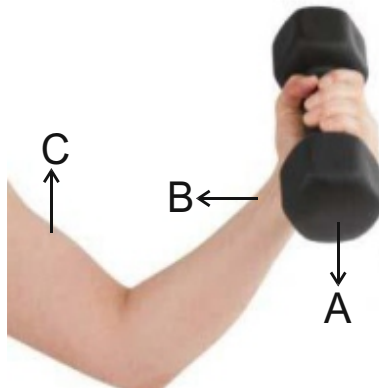


- (a) E and F
- (b) G and H
- (c) F and G
- (d) F and H

44) A female rat escaped from the clutches of a snake. Later she gave birth to nine young ones. When the young ones grew; everyone in the family ate 50 gm of rice every day. How much rice could have been saved in 30 days, if the snake had killed the female rat?

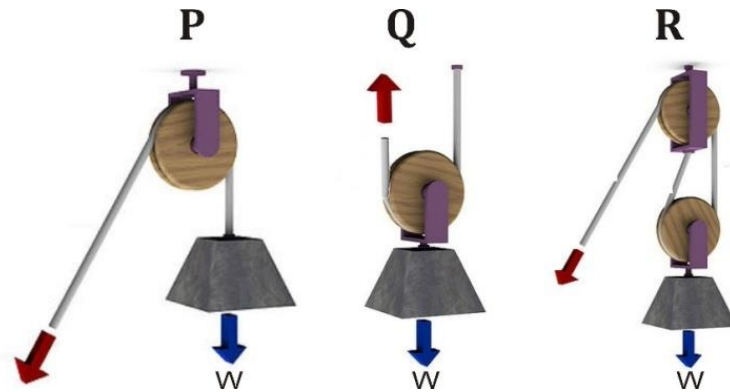
- (a) 150 kg
- (b) 1.5 kg
- (c) 1500 kg
- (d) 15 kg

45) What will be the correct option for points A, B, C in the given figure ?



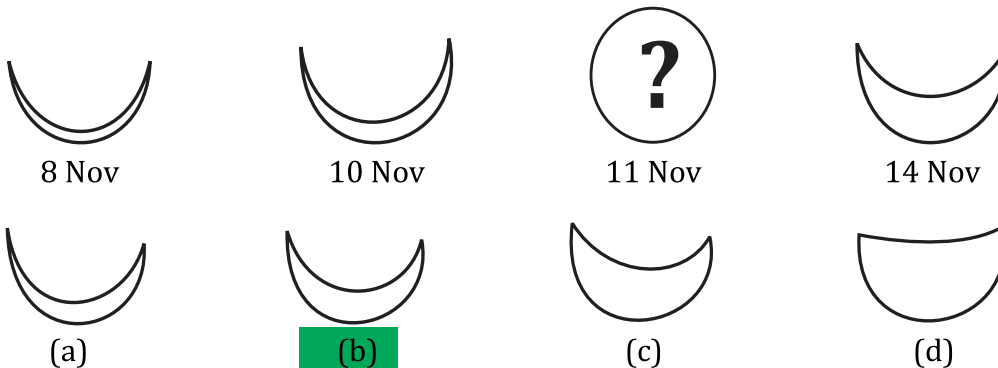
- (a) A - fulcrum, B - effort, C - load
- (b) A - effort, B - load, C - fulcrum
- (c) A - load, B - fulcrum, C - effort
- (d) A - effort, B - fulcrum, C - load

46) Refer the figures 'P', 'Q' and 'R'. In which position least effort is required to lift the equal load ?



- (a) P
- (b) Q
- (c) R
- (d) Q and R

47) The figure below shows the shapes of moon as seen from Earth on different nights. Which one of the following figures shows the correct shape of moon on 11th November?



48) We can not speak when we have hoarse throat because _____

- (a) Vibrations of vocal cords are obstructed
- (b) Vocal cords are swollen
- (c) Vocal cords become flexible
- (d) The length of vocal cords is increased

49) Which of the following organ is fundamentally needed to inflate the balloon ?



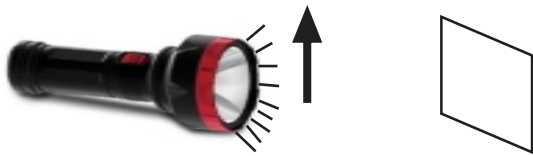
(a) Heart

(b) Stomach

(c) Lungs

(d) Mouth

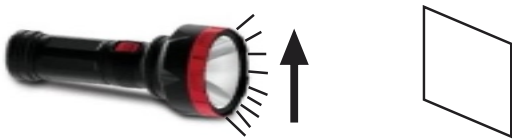
50) The torch and the wall are stationary. To get the biggest shadow of the arrow, select the correct figure from below.



(a)



(b)



(c)



(d)

* * * * *

Feedback Section

51) Please select the most appropriate option according to you and provide us your valuable feedback about the test paper.

(a) Interesting but Difficult

(b) Interesting and Easy

(c) Easy but Boring

(d) Difficult and Boring

Space for Rough Work
