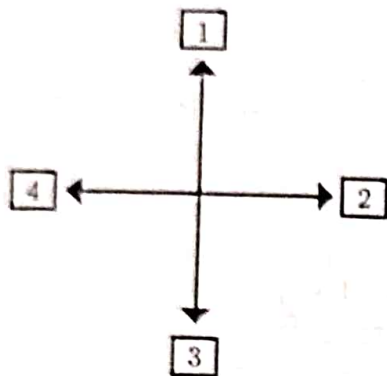


# Standard VI – Question Paper 2019 (with Answer Key)

Q. 1. The total universe is classified into seven groups. This opinion was expressed by \_\_\_\_\_  
 (A) Dr. Homi Bhabha (B) C. V. Raman  
 (C) Maharshi Kanad (D) Dr. Jagadishchandra Bose

Q. 2. A symbol of directions is given in the corner of every map. Find the correct order given in the square.



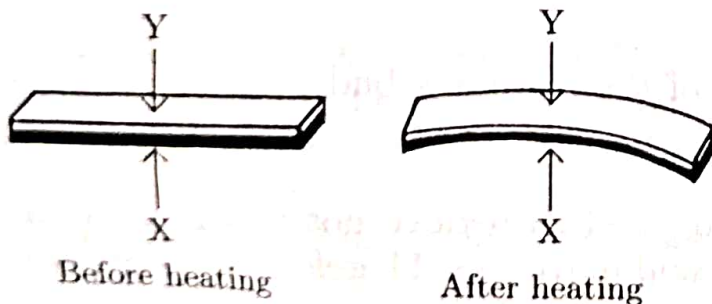
- (A) 1) East 2) West 3) South 4) North  
 (B) 1) North 2) East 3) South 4) West  
 (C) 1) North 2) West 3) South 4) East  
 (D) 1) West 2) North 3) East 4) South

Q. 3. Which of the following statements are correct, regarding organic farming?  
 (P) Use of organic pesticides (Q) Use of chemical fertilizers  
 (R) More use of manure made of dung (S) Overuse of water

- (A) P and Q (B) P and R (C) Q and R (D) R and S

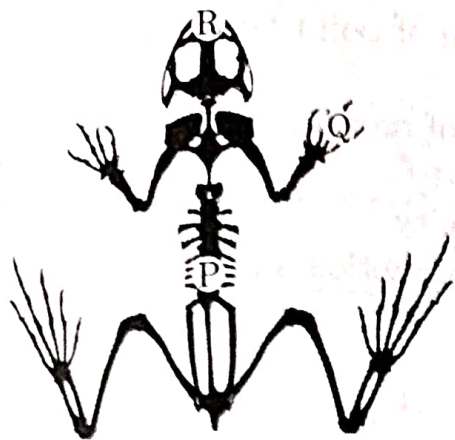
Q. 4. Players get instant energy if they are given \_\_\_\_\_ in the interval.  
 (A) Tea (B) Glucon-D (C) Vada Pav (D) Limbu Sharbat

Q. 5. In the given diagram, a bi-metal bar, made with metal X and metal Y is shown before heating and after heating. Observe the diagram and select the correct alternative.



- (A) Expansion of Y > Expansion of X  
 (B) Expansion of X > Expansion of Y  
 (C) Expansion of X = Expansion of Y  
 (D) Both the metals do not expand.

Q. 6. Identify the types of bones shown in the diagram with letters 'P', 'Q' and 'R'.



- | P                 | Q               | R           |
|-------------------|-----------------|-------------|
| Ⓐ Irregular bones | Long bones      | Flat bones  |
| Ⓑ Flat bones      | Irregular bones | Long bones  |
| Ⓒ Flat bones      | Long bones      | Small bones |
| Ⓓ Irregular bones | Small bones     | Flat bones  |

Q. 7. How will number '3' be seen, through a pinhole camera?

- Ⓐ ∞      Ⓑ 3      Ⓒ ε      Ⓓ ∞

Q. 8. When a spoon of sugar is dissolved in 100 ml water, the resultant volume of solution remains the same; because when the sugar gets dissolved in water \_\_\_\_\_

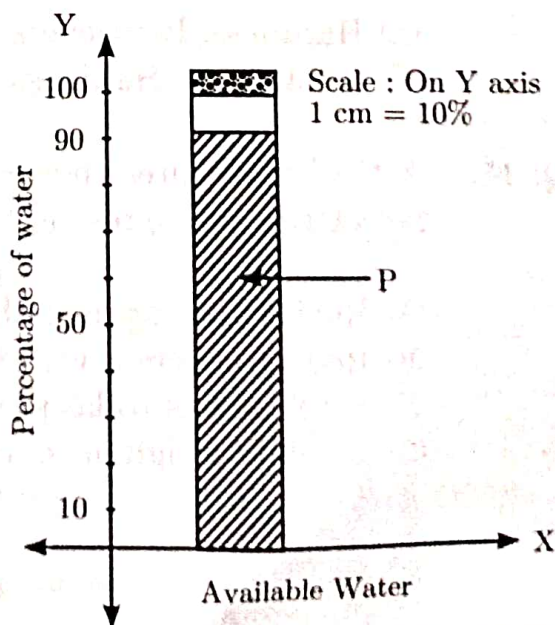
- Ⓐ sugar vanishes      Ⓑ some water gets evaporated  
 Ⓒ small particles of water spread into empty space between sugar particles.  
 Ⓓ sugar particles enter in between empty spaces of water particles.

Q. 9. While charging the mobile phone, electric energy gets converted into which energy?

- Ⓐ Chemical      Ⓑ Sound      Ⓒ Mechanical      Ⓓ Magnetic

Q. 10. Distribution of water on Earth is shown in the adjacent diagram. Which water is shown by 'P'?

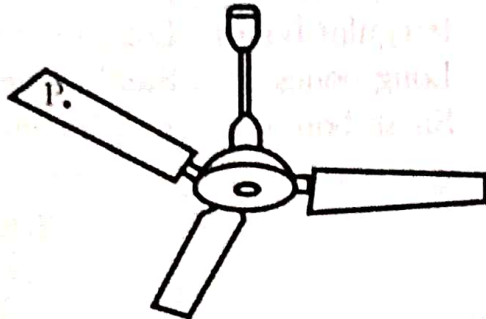
- Ⓐ Water in the ocean  
 Ⓑ Snow or ice on the pole  
 Ⓒ Water existing in the interior of Earth  
 Ⓓ Sweet water on the surface of Earth





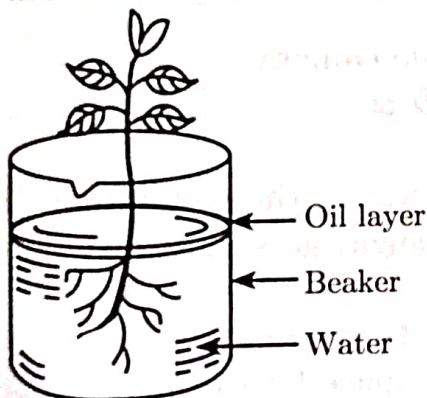
Q. 11. Maximum layer of humus is found in the \_\_\_\_\_  
 (A) dense forest (B) desert (C) marshy land (D) sea shore

Q. 12. Select the *correct* alternative regarding the motion of point 'P' on the fan.



- (A) Direction of motion is same
- (B) Same speed
- (C) Same velocity
- (D) Direction of motion and speed are same

Q. 13. If the arrangement shown in the diagram is kept as it is for some days, the level of water in the beaker \_\_\_\_\_



- (A) will increase
- (B) will decrease
- (C) will remain the same
- (D) Can not say

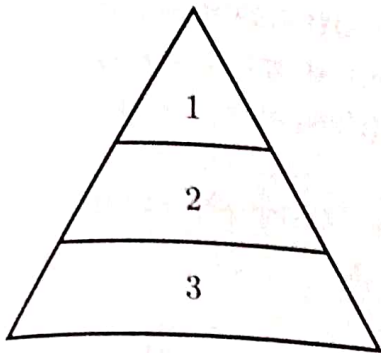
Q. 14. (i) A pointed glass piece can give a scratch on metal.  
 (ii) If a glass pot falls on the ground, it breaks.  
 Which characteristic of glass is seen respectively from the above incidents.

- (A) Hardness, Brittleness
- (B) Hardness, Elasticity
- (C) Brittleness, Hardness
- (D) Elasticity, Hardness

Q. 15. A Rocket requires enormous quantity of fuel.  
 Select the *wrong* reason from the given alternatives.

- (A) Rocket flies against the gravitational force.
- (B) Rocket covers a very long distance within a short period.
- (C) Satellite has to keep moving continuously in the space.
- (D) Satellite weighing some tons is to be carried in the space.

Q. 16. A pyramid of various constituents of food is shown. Select the right pair to show the place of leafy vegetables and eggs in our diet.



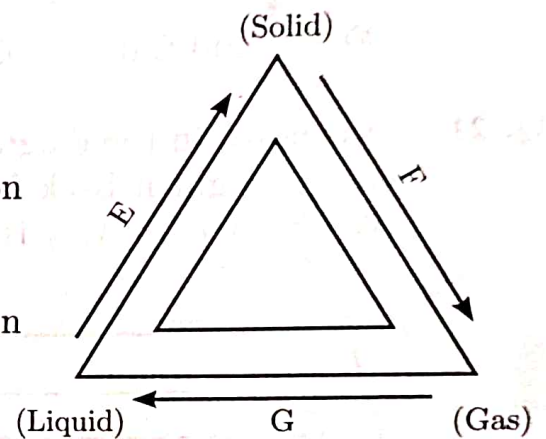
1. Food to improve resistance to diseases
2. Body building food
3. Energy giving food

- (A) 3, 1      (B) 1, 2      (C) 3, 2      (D) 2, 1

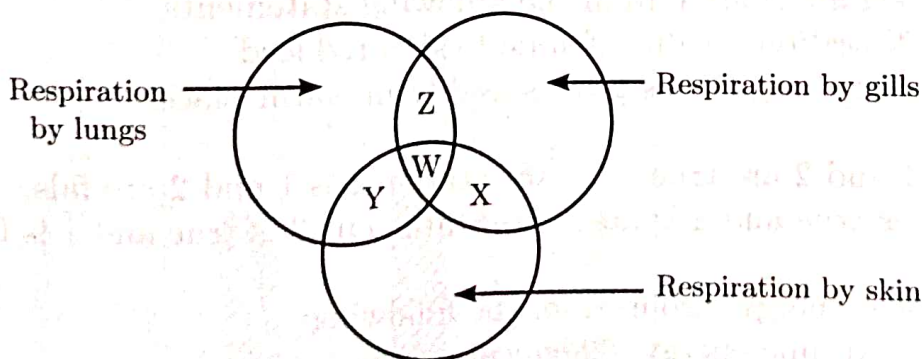
Q. 17. Choose the correct alternative which shows processes 'E', 'F' and 'G' respectively.

- |                  |              |
|------------------|--------------|
| E                | F            |
| (A) Freezing     | Sublimation  |
| (B) Condensation | Freezing     |
| (C) Freezing     | Condensation |
| (D) Sublimation  | Freezing     |

- G
- Condensation  
Sublimation  
Sublimation  
Condensation



Q. 18. Three circles are drawn showing animals which breathe through lungs, skin and gills. Identify the alphabet that shows the place of breathing of a fully grown up frog.



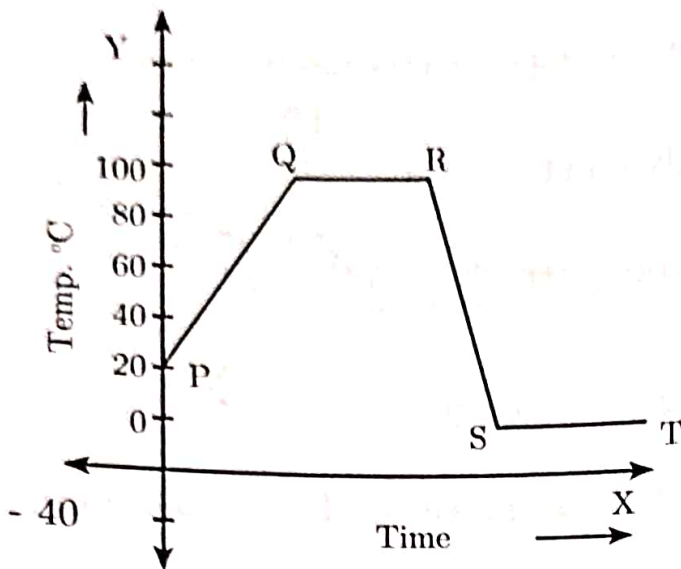
- (A) Y      (B) X      (C) Z      (D) W

Q. 19. Ultraviolet rays coming from the Sun, are absorbed in the \_\_\_\_\_ layer of atmosphere.

- (A) Troposphere      (B) Stratosphere      (C) Mesosphere      (D) Ionosphere

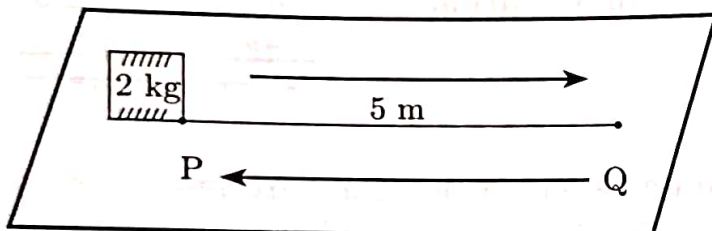


- Q. 20. Observe the graph, for changes in the temperature of water and identify which part of the graph indicates boiling and freezing respectively.



- (A) PQ and QR      (B) QR and ST      (C) RS and ST      (D) PQ and RS

- Q. 21. As shown in the diagram, Ajay moved a block from point 'P' to point 'Q' and brought it back from point 'Q' to point 'P'.  
Work done by Ajay is \_\_\_\_\_



- (A) 10 J (Jule)      (B) 20 J      (C) 7 J      (D) 0 J

- Q. 22. Choose the *correct* alternative from the following statements.  
Statement 1 → Nutritional value of stale food is reduced.  
Statement 2 → Micro organisms grow speedily in warm places.

- (A) Statements 1 and 2 are true      (B) Statements 1 and 2 are false  
(C) Statement 1 is true and 2 is false      (D) Statement 2 is true and 1 is false

- Q. 23. Identify the 'Green energy' group from the following:

- (A) Wind energy, Atomic energy, Chemical energy  
(B) Oceanic energy, Thermal energy, Electric energy  
(C) Wind energy, Oceanic energy, Solar energy  
(D) Solar energy, Chemical energy, Electric energy

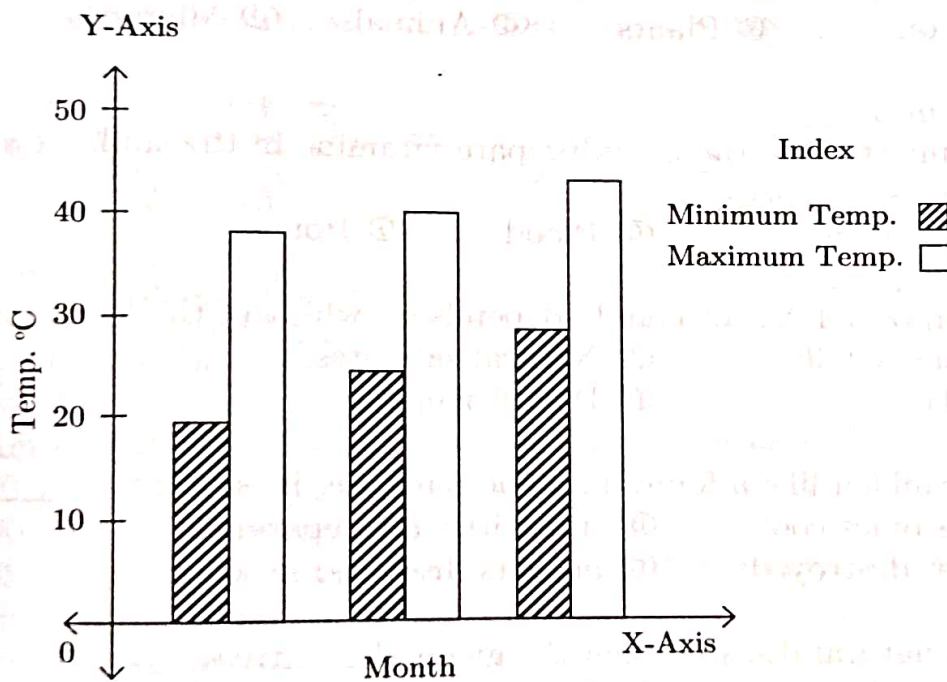
- Q. 24. When proportion of Carbon dioxide increases in the atmosphere, which effect is seen?
- (A) Atmospheric temperature increases
  - (B) Tree leaves turn yellow
  - (C) Atmospheric temperature decreases
  - (D) Rate of photosynthesis decreases

- Q. 25. Guess the region of the person shown in the picture.

- (A) Jungle
- (B) Desert
- (C) Seashore
- (D) Snowcovered



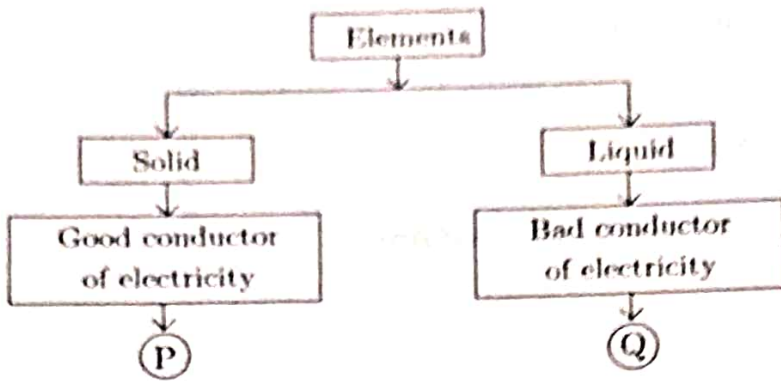
- Q. 26. Identify the type of climate of the city from the figures shown in the graph.



- (A) Hot — humid
- (B) Cold — humid
- (C) Hot — dry
- (D) Cold — dry

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Q. 27. Select correct alternatives for P and Q as shown in the given flow chart.



- |             |           |
|-------------|-----------|
| Ⓐ → Mercury | Ⓔ Sulphur |
| Ⓑ → Copper  | Ⓚ Bromine |
| Ⓒ → Sulphur | Ⓛ Mercury |
| Ⓓ → Carbon  | Ⓜ Mercury |

Q. 28. Find the odd man out as per the type of simple machine.  
 Ⓐ Needle    Ⓑ Nail    Ⓒ Knife    Ⓓ Screw

Q. 29. While cooking vegetables, Sunita first cuts the cabbage finely. Then washes it and then cooks it for a long time. Which deficiency problem will be faced by her family members?  
 Ⓐ Nightblindness    Ⓑ Rickets    Ⓒ Anaemia    Ⓓ Scurvy

Q. 30. Moon is kept in the orbit around Earth by \_\_\_\_\_.  
 Ⓐ moon's gravitational force    Ⓑ Earth's magnetic force  
 Ⓒ Sun's gravitational force    Ⓓ Earth's gravitational force

Q. 31. What is the original source of nylon and rayon threads?  
 Ⓐ Mineral oil    Ⓑ Plants    Ⓒ Animals    Ⓓ Microbes

Q. 32. *Guess who am I?*  
 I maintain moisture in the body, prepare vitamines in the sunlight and throw out excretory substances.  
 Ⓐ Kidney    Ⓑ Skin    Ⓒ Blood    Ⓓ Bones

Q. 33. The function of a T.V. set mainly depends on which of the following?  
 Ⓐ Man made satellites    Ⓑ Natural satellites  
 Ⓒ Asteroids    Ⓓ Dwarf planets

Q. 34. Water is sprinkled like a fountain while purifying it, so that \_\_\_\_\_.  
 Ⓐ water becomes cool    Ⓑ impurities are separated  
 Ⓒ germs get destroyed    Ⓓ air gets dissolved in water

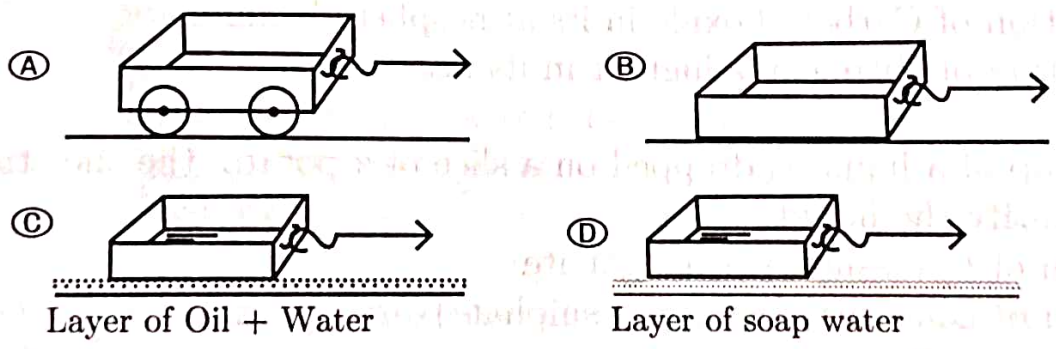
Q. 35. Identify the natural disaster from the given alternatives.  
 Ⓐ An earthquake    Ⓑ An accident  
 Ⓒ Leakage of petrol    Ⓓ Building on fire



- Q. 36. Which measuring unit will be appropriate to measure speed of ants?  
 (A) mm/s      (B) decim/s      (C) m/s      (D) km/hour
- Q. 37. \_\_\_\_\_ has been modified in 'Pitcher'- the insectivorous plant.  
 (A) The leaf      (B) The stem      (C) The flower      (D) The fruit
- Q. 38. Characteristics of lever 'P' and 'Q' are given. Identify their types.  
 P → According to the position of fulcrum, force required is more or less than the load.  
 Q → Force required is always more than the load.

- |              |          |
|--------------|----------|
| P            | Q        |
| (A) 1st type | 2nd type |
| (B) 1st type | 3rd type |
| (C) 2nd type | 3rd type |
| (D) 3rd type | 1st type |

- Q. 39. The difference between moon's period of rotation and revolution is \_\_\_\_\_ days.  
 (A) 27.3 days      (B) 30 days      (C) 365 days      (D) 0 days
- Q. 40. Amita wants to preserve some food items. Which of the following ingredients she should not mix in order to make the food last long?  
 (A) Sugar      (B) Vinegar      (C) Lime juice      (D) Edible oil
- Q. 41. In the given diagram, which alternative will have more frictional force?



- Q. 42. Actions of old people above 60 years are not as swift as young people below 30 years.  
 (A) Age of old people is more.  
 (B) Bones of old people are brittle and their tissues are weak.  
 (C) Weight of old people is more.  
 (D) Movements of old people are less.



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Q. 43. Recognise correlation and write appropriate alternative.  
Honey comb : Compartments : : Human body : \_\_\_\_\_

- (A) Organ      (B) System      (C) Cell      (D) Tissue

Q. 44. Problems like mental disorder, reclusiveness etc. are faced due to following reasons \_\_\_\_\_

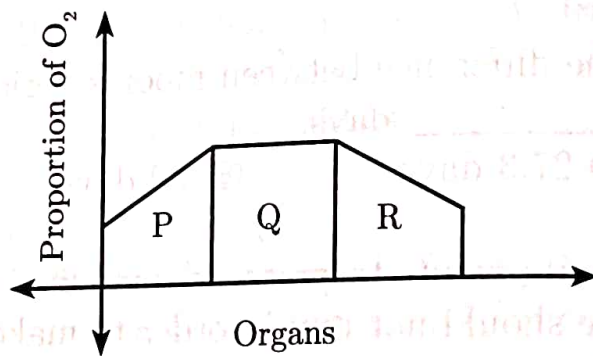
- (A) Insufficient diet      (B) Excessive use of mobile  
(C) Hereditary      (D) Playing outdoor games in excessive proportion

Q. 45. \_\_\_\_\_ is not a magnetic metal.

- (A) Iron      (B) Copper      (C) Nickel      (D) Cobalt

Q. 46. Proportion of changing Oxygen, while blood is circulating in the body, is shown in the given graph. Which part of the graph shows lungs?

- (A) P      (B) Q  
(C) R      (D) P and Q



Q. 47. Planet 'Venus' is the most hot planet, because \_\_\_\_\_ .


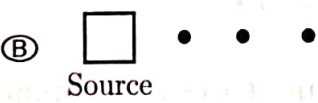

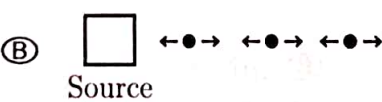
- (A) it is close to the sun  
(B) there is more proportion of Oxygen in its atmosphere  
(C) proportion of Carbon dioxide in its atmosphere is more  
(D) proportion of Nitrogen is highest in its atmosphere

Q. 48. When a drop of a liquid is dropped on a slice of a potato, the slice turned purple. Identify the liquid.

- (A) Solution of Potassium permanganate  
(B) Solution of Blue vitriol (Copper sulphate)  
(C) Solution of Iodine  
(D) Vinegar





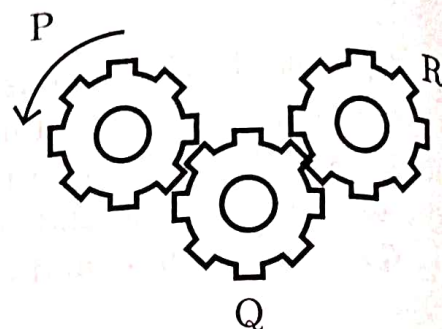
- Q. 56. Glasses X, Y and Z are of the same size and shape. They are filled with same quantity of water. Two spoons of salt is added in each glass.  
 Glass X is kept on the table  
 Glass Y is kept in the refrigerator  
 Glass Z is heated.  
 Salt from which glass will get dissolved first?  
 (A) X (B) Y (C) Z (D) In X, Y, Z at the same time
- Q. 57. At 8:30 a.m. in car watch, odometer reading was 57,321 km. When car stopped at 8:50 a.m., the odometer reading was 57,336 km. Find the speed of the car.  
 (A) 0.75 km/min (B) 0.075 km/min  
 (C) 75 km/min (D) 0.0075 km/min
- Q. 58. From the given team games, utmost speed and co-ordination is required in \_\_\_\_\_.  
 (A) Dodgeball (B) Football (C) Basketball (D) Volleyball
- Q. 59. A stretched rubber has \_\_\_\_\_ energy. When the rubber is coming back to normal position \_\_\_\_\_ energy is produced. This change in state of rubber is due to \_\_\_\_\_ of it. Choose the *correct* alternative.  
 (A) kinetic, elasticity, potential energy  
 (B) potential, kinetic, elasticity energy  
 (C) potential, elasticity, kinetic energy  
 (D) kinetic, potential, brittleness
- Q. 60. Work is done by which person from the given alternatives?  
 (A) A person riding bicycle (B) A person standing with load  
 (C) A person working on computer (D) A and C both
- Q. 61. During propagation of sound, what will be the state of particles in the media?  
 (A)  (B)   
 (C)  (D) 
- Q. 62. The Oxygen stored in the cylinder, which is given to the patients is in the liquid form, because \_\_\_\_\_.  
 (A) at room temperature, Oxygen is in the liquid form  
 (B) cylinder temperature can be maintained.  
 (C) volume of gas in liquid form becomes lesser, so it becomes convenient to store.  
 (D) Oxygen is given in liquid form to the patient

- Q. 63. Some objects are kept on the ground in the morning. Their shadows \_\_\_\_\_.
- (A) will be similar
  - (B) will be dissimilar
  - (C) may be dissimilar; but they must be in the same direction
  - (D) may be similar; but in the different direction
- Q. 64. In a plant cell, there is a \_\_\_\_\_.
- (A) large vacuole and no cell wall
  - (B) small vacuole and no cell wall
  - (C) large vacuole and cell wall is present
  - (D) small vacuole and cell wall is present
- Q. 65. *Guess who am I?*  
 I am being used in filtration.  
 I am being used while transforming gaseous element into solid for collecting particles of solid.  
 I am used both ways. (Normally and upside down)
- (A) Beaker
  - (B) Funnel
  - (C) Conical flask
  - (D) Evaporating dish
- Q. 66. We can write on the paper with a ball pen, because \_\_\_\_\_.
- (A) attraction between the molecules in ink < attraction between molecules of ink and paper
  - (B) attraction in between molecules in ink > attraction between molecules of ink and paper
  - (C) attraction in ink molecules = attraction between ink and paper molecules.
  - (D) there is no attraction between two molecules of ink
- Q. 67. The flying animal is a mammal.
- (A) A Kite
  - (B) A Bat
  - (C) An Owl
  - (D) An Eagle
- Q. 68. Considering the efforts required for a specific load, identify the odd man.
- (A) Inclined plane
  - (B) Wedge
  - (C) Pulley
  - (D) 2<sup>nd</sup> type of lever
- Q. 69. Gas, dissolved in liquid can be separated by \_\_\_\_\_.
- (A) filtration
  - (B) distillation
  - (C) heating
  - (D) evaporation
- Q. 70. Select the *correct* alternative regarding the following statements.
- (1) During rainy season, wells and rivers get polluted.
  - (2) Polluted water causes cholera and diarrhoea.
  - (3) Stomach upsetting epidemics occur in rainy season.



- (A) Statements 1 and 2 are the cause of statement 3
- (B) Statement 2 is the cause of statement 1
- (C) Statement 3 is the cause of statement 2
- (D) Statement 3 is the cause of statement 1

Q. 71. Sprocket wheels P, Q, R are specially arranged in a machine. Raj rotated wheel 'P' anti-clockwise. So, wheels 'Q' and 'R' also started rotating. In which direction wheels 'Q' and 'R' might have rotated?



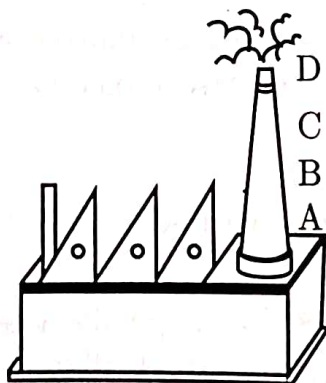
- (A) Both will rotate clockwise
- (B) Both will rotate anti-clockwise
- (C) Wheel 'Q' in clockwise and wheel 'R' in anti-clockwise direction
- (D) Wheel 'Q' in anti-clockwise and wheel 'R' in clockwise direction

Q. 72. Which one of the following statements is wrong about anaemia?

- (A) Efficiency of red blood corpuscles decreases
- (B) Proportion of iron in blood reduces
- (C) Tiredness due to weakness
- (D) Eyesight weakens

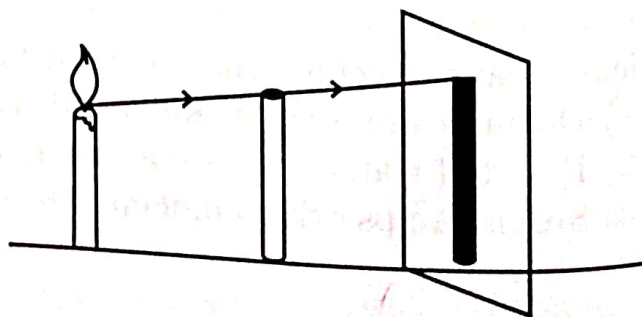
Q. 73. In which region near chimney, the proportion of different gases in air is much different from the proportion we learn from the text book.

- (A) A
- (B) B
- (C) C
- (D) D

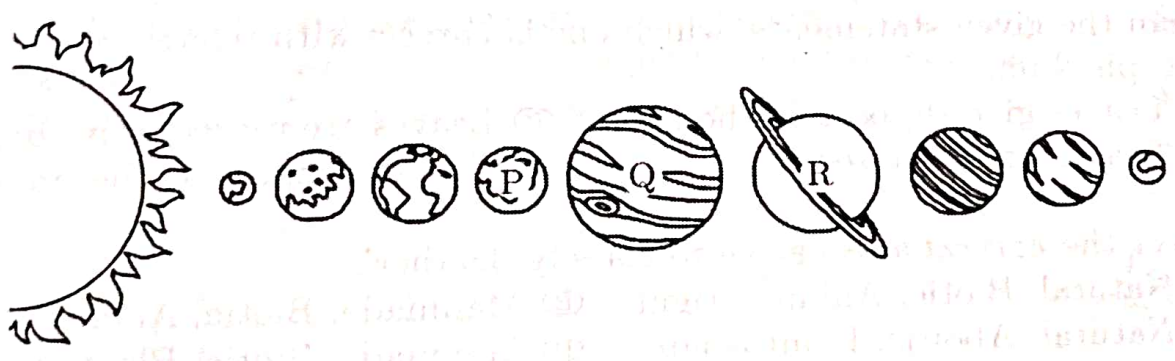


Q. 74. As shown in the diagram a cylinder is kept in front of a burning candle. After 15 minutes what will we observe in the shadow?

- (A) The height will increase
- (B) The height will remain same
- (C) The height will decrease
- (D) The width will increase



- Q. 75. From the given joints, which joint allows maximum movement in all direction?  
 (A) Shoulder joint (B) Back bone joint  
 (C) Wrist joint (D) Ankle joint
- Q. 76. Force can change the shape of an object. Which one of the following is the example of this?  
 (A) Making a model using clay  
 (B) A man riding a cycle speedily  
 (C) Goalkeeper stopping the ball in a football match  
 (D) Batsman hitting a ball in a cricket match
- Q. 77. A person having 'A' blood group can donate blood to persons having \_\_\_\_\_ blood group.  
 (A) A, B (B) A, AB (C) O, A (D) B, AB
- Q. 78. If a paper is kept on a particular distance from a convex lens, in bright sun rays, after sometime the paper starts burning, because \_\_\_\_\_.  
 (A) the sunrays go through the lens  
 (B) the sunrays get concentrated at one point due to lens  
 (C) the shape of lens is circular  
 (D) heat is produced, when the sunrays pass through the lens
- Q. 79. Which digestive gland is below stomach?  
 (A) Liver (B) Pancreas (C) Gall bladder (D) Salivary glands
- Q. 80. The picture shows the planets of the solar system. Therefore P, Q, R, are \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ respectively.

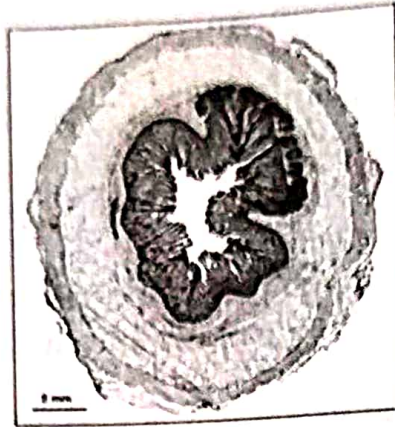


- (A) Venus, Earth, Mars (B) Mars, Jupiter, Saturn  
 (C) Jupiter, Saturn, Mars (D) Saturn, Mars, Jupiter

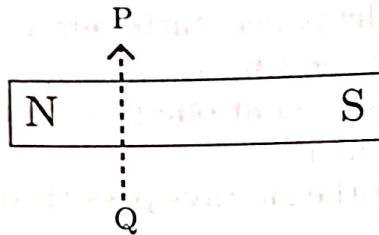


Q. 81. Identify the part of the digestive track from the given cross-section.  
It is \_\_\_\_\_.

- (A) Food pipe
- (B) Stomach
- (C) Small intestine
- (D) Large intestine



Q. 82. As shown in the diagram, if a bar magnet is cut near the line 'PQ', select the alternative to show the state of pieces.



- |     |  |  |     |  |  |
|-----|--|--|-----|--|--|
| (A) | <div style="border: 1px solid black; padding: 2px; display: inline-block;">N</div>   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">N S</div> | (B) | <div style="border: 1px solid black; padding: 2px; display: inline-block;">S N</div> | <div style="border: 1px solid black; padding: 2px; display: inline-block;">N S</div> |
| (C) | <div style="border: 1px solid black; padding: 2px; display: inline-block;">N S</div> | <div style="border: 1px solid black; padding: 2px; display: inline-block;">N S</div> | (D) | <div style="border: 1px solid black; padding: 2px; display: inline-block;">S</div>   | <div style="border: 1px solid black; padding: 2px; display: inline-block;">N S</div> |

Q. 83. From the given statements, which one is *correct* with reference to Bryophyllum.

- |                                      |   |
|--------------------------------------|---|
| (A) Leaves give support to the plant | (B) Leaves are reproductive organs        |
| (C) Leaves attract insects           | (D) Flowers appear at the tip of the leaf |

Q. 84. Select the *correct* alternative to classify 'leather'.

- |                                    |                                    |
|------------------------------------|------------------------------------|
| (A) Natural, Biotic, Animal origin | (B) Manmade, Biotic, Animal origin |
| (C) Natural, Abiotic, Plant origin | (D) Manmade, Biotic, Plant origin  |

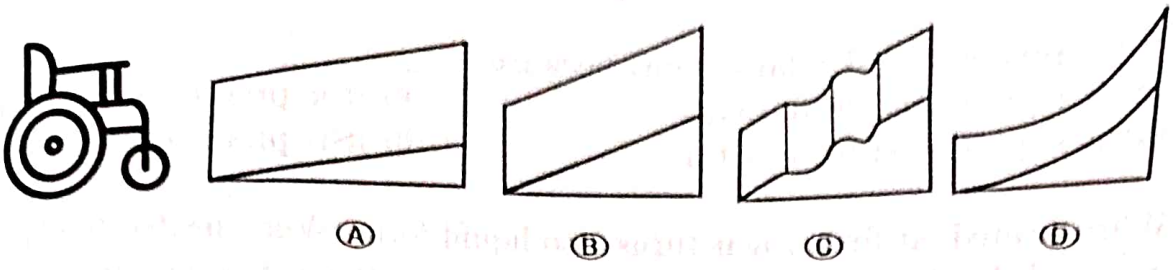
Q. 85. What is the unit of intensity of sound?

- |           |             |             |                    |
|-----------|-------------|-------------|--------------------|
| (A) Hertz | (B) Decibel | (C) Candela | (D) Metre / Second |
|-----------|-------------|-------------|--------------------|

Q. 86. Sharad asked his mother for cidar, but his mother told him to eat the apple because it would give him more \_\_\_\_\_ than the cidar.

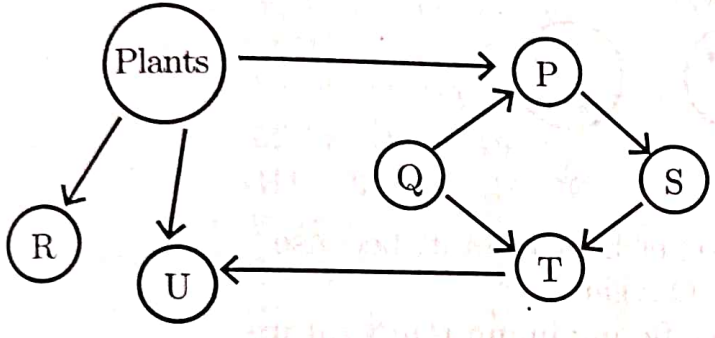
- |              |                   |              |                       |
|--------------|-------------------|--------------|-----------------------|
| (A) proteins | (B) carbohydrates | (C) vitamine | (D) fibrous substance |
|--------------|-------------------|--------------|-----------------------|

Q. 87. While carrying a patient to the hospital by a wheel chair, which ramp should be used, so that minimum force is required?



Q. 88. Find the Odd man out.  
 (A) Cobra (B) Python (C) Viper (D) Sea snake

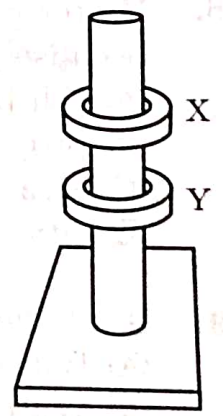
Q. 89. In given foodweb, P, Q, R, S, T and U are animals. Which of these animals are omnivorous?



(A) P and S (B) Q and U (C) R and T (D) P and U

Q. 90. In the given diagram, 'X' and 'Y' are circular magnets; floating above each other. Find the correct reason from the following for this phenomenon.

- (A) Magnet 'X' is more powerful than magnet 'Y'
- (B) Magnet 'Y' is more powerful than magnet 'X'
- (C) Opposite poles of both the magnets are facing each other
- (D) Like poles of both magnets are facing each other



Q. 91. 'Chandrayaan 2', launched on 22<sup>nd</sup> July 2019, has required \_\_\_\_\_ days to reach the surface of moon

- (A) 28 (B) 38 (C) 48 (D) 58

Q. 92. Which state was not affected by cyclon 'Fani'?

- (A) Odisha (B) West Bengal (C) Andhra Pradesh (D) Maharashtra

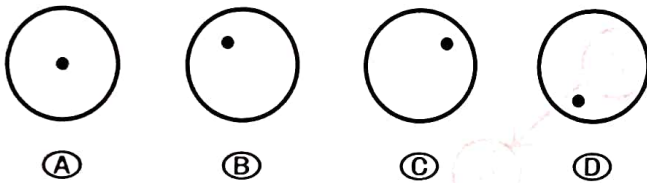


Q. 93. If the Sun stopped shining suddenly, how much time will people on Earth take to know the fact?  
 (A) Zero minute (B) 8 seconds (C) 8 minutes (D) 8 hours

Q. 94. The apple is called a false fruit, because \_\_\_\_\_  
 (A) it is produced from ovary (B) it is produced from sepal  
 (C) it is produced from petal (D) it is produced from thalamus

Q. 95. When heated, at first, sugar turns into liquid form. When heated further, it turns into coal. Find out which of the following elements must be present in the sugar.  
 (A) Hydrogen and Oxygen (B) Only Carbon  
 (C) Carbon and Hydrogen (D) Carbon, Hydrogen and Oxygen

Q. 96. For the wheel to rotate fast, axle of a giant wheel must be at the position shown in option \_\_\_\_\_



Q. 97. Fuel is to be heated first to get heat from it, because \_\_\_\_\_  
 (i) fuel needs to react with Oxygen  
 (ii) the process requires specific minimum temperature  
 (iii) fuel has chemical energy

(A) i, ii, iii (B) i, ii (C) ii, iii (D) i, iii

Q. 98. Water gets logged immediately at some places after it rains in Mumbai city, because \_\_\_\_\_

(A) tall buildings are in Mumbai  
 (B) proportion of water percolating in soil is very little in Mumbai  
 (C) arrangement for draining rain water in Mumbai is inadequate  
 (D) city of Mumbai is made of islands

Q. 99. If a balloon with a small hole is filled with water, what will happen?  
 (A) Balloon will burst (B) A spray of water will appear from the hole  
 (C) Water will leak from the hole  
 (D) First water will spray out and then it will leak

Q. 100. You must have handled Indian currency notes many times. There is a significant picture on its one side. On which of the following currency notes printed recently, do we find the picture of *Mangalayan*?  
 (A) ₹100 (B) ₹500 (C) ₹2000 (D) ₹50