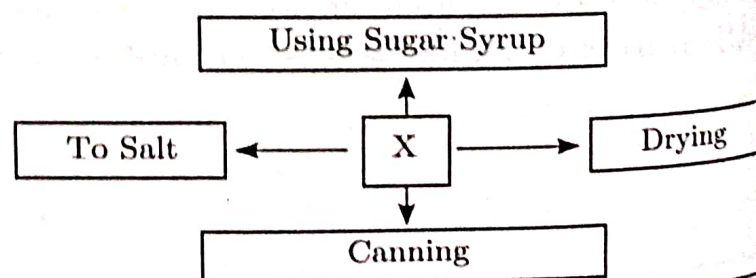


Standard VI – Question Paper 2020

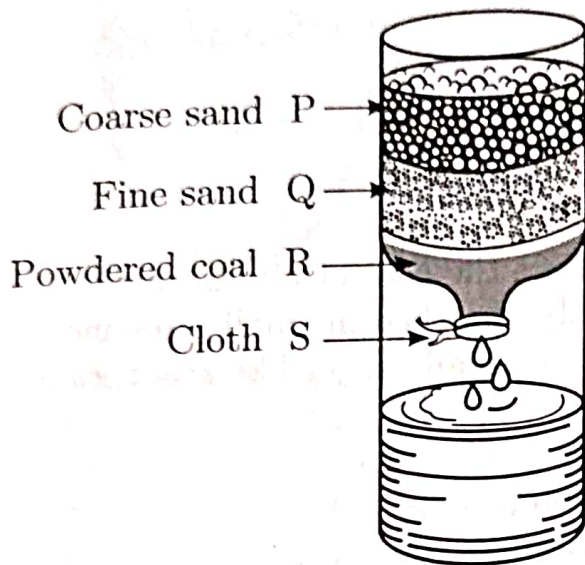
- Q. 1. Find the odd man out on the basis of their growth stages.
Ⓐ Frog Ⓑ Silkworm Ⓒ Butterfly Ⓓ Moth
- Q. 2. Betelvine is _____
Ⓐ an annual plant Ⓑ a perennial plant
Ⓒ a biennial plant Ⓓ a seasonal plant
- Q. 3. Find the incorrect statements:
1) Microorganisms are found in water
2) All microorganisms are useful to us
3) Microorganisms can be separated by settling and filtering water
4) Microorganisms can be seen by naked eyes
Ⓐ 1, 2 and 3 Ⓑ 2 and 4 Ⓒ 2, 3 and 4 Ⓓ All are incorrect
- Q. 4. Sampada's actions are as below while working. Which action of her is properly related to saving of water?
Ⓐ Uses filtered water for drinking
Ⓑ Uses shower for bathing
Ⓒ Cleans her hands with soap before eating
Ⓓ Gives water used for washing vegetables and fruits to plants
- Q. 5. Day and night are equal of 12 hours on _____.
Ⓐ 21st March Ⓑ 23rd December Ⓒ 21st June Ⓓ 14th January
- Q. 6. _____ eat producers as well as consumers.
Ⓐ Primary consumer Ⓑ Insectivorous
Ⓒ Omnivorous Ⓓ Carnivorous
- Q. 7. Find the group in which we use fruits of the both plants as vegetable.
Ⓐ Cowpea, Snake gourd Ⓑ Pumpkin, Lady's fingers
Ⓒ Bitter gourd, Lentil Ⓓ Snake gourd, Lentil
- Q. 8. The use of all the methods of preserving food shown in the concept picture can be utilised in which of the following food items?

- Ⓐ Grapes
Ⓑ Fish
Ⓒ *Amla* (Indian gooseberry)
Ⓓ Lemon



- Q. 9. Sameer suggested some solution to Sarika for saving fossil fuel and minimising pollution. Which of them do you find proper?
- (A) Use vehicle that can run on CNG
 - (B) Use of bicycle for nearby travel and public transport for long distance journey
 - (C) Maximum use of private vehicle for safety as well as to save time
 - (D) Use bicycle for short as well as long distance travel.

- Q. 10. Layers P, Q, R, S are shown in the given diagram. What will happen if these layers are kept in reverse order?



- (A) Speed of filtration will increase
- (B) Speed of filtration will decrease
- (C) Water will become more pure
- (D) No effect

- Q. 11. Spitting in public place is prohibited by law. The most appropriate reason for this is -

- (A) It is a bad habit
- (B) The public place gets dirty
- (C) The spit can affect someone else
- (D) It can spread many diseases

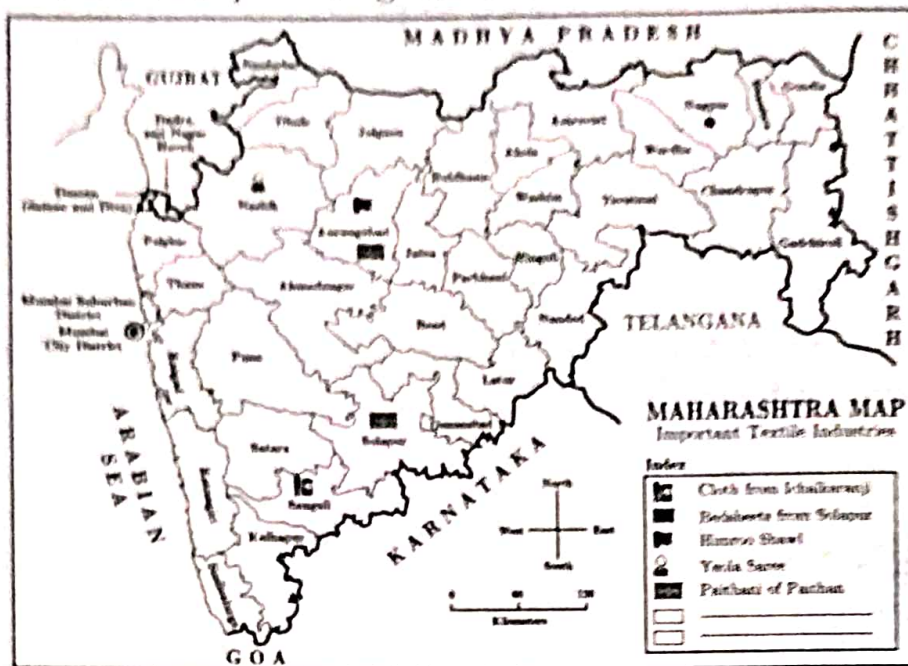
- Q. 12. Sound of breaking a cup and a saucer came from the kitchen and mother ran to the kitchen. In this movement, she used which sensory organ and external organ?

- (A) Legs, Ears
- (B) Ears, Legs
- (C) Eyes, Legs
- (D) Legs, Eyes

- Q. 13. From which of the following groups, both the threads are obtained from plants?

- (A) Cotton, Jute
- (B) Cotton, Silk
- (C) Jute, Silk
- (D) Silk, Wool

Q. 14. Which Map making method is used in the adjacent map?



- (A) Contour line method
- (B) Layer tinting method
- (C) Digital elevation method
- (D) None of the above

Q. 15. Read the following statements and select the correct alternative.

- 1) Digested food ingredients are mainly absorbed in small intestine.
- 2) The inner walls of small intestine has small, finger-like absorption organs.

- (A) Statements 1 and 2 are correct
- (B) Statement 1 is correct and 2 is wrong
- (C) Statement 1 is wrong and 2 is correct
- (D) Statements 1 and 2 both are wrong

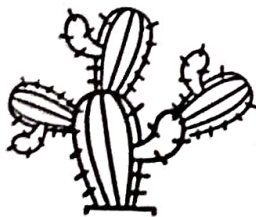
Q. 16. Which of the following methods of producing electricity is environment-friendly?

- (A) Hydro-electricity
- (B) Thermal electricity
- (C) Using windmill
- (D) Using nuclear power

Q. 17. Skins of fruits, vegetables, cereals and pulses are good for _____

- (A) producing energy
- (B) body building
- (C) increasing resistance to diseases
- (D) stool formation

Q. 18. In which region, we can notice the plant, shown in the adjacent picture?



- (A) Polar
- (B) Grassland region
- (C) Desert
- (D) Mountainous

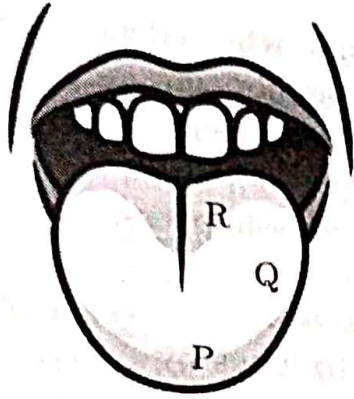
Q. 19. In which climatic condition leaves rot in shortest period?

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

Q. 20. Complete the analogy.
Space journey : Spacecraft :: Space observation : _____

- (A) Telescope (B) Microscope (C) Binocular (D) Rocket

Q. 21. Which alternative is correct for our tongue?



- (A) P: Sweet, Q: Sour/Astringent, R: Bitter
(B) P: Bitter, Q: Sour/Astringent, R: Sweet
(C) P: Sour/Astringent, Q: Sweet, R: Bitter,
(D) P: Sour/Astringent, Q: Bitter, R: Sweet

Q. 22. While going high up from the sea level _____.

- (A) air temperature and air pressure increases
(B) air temperature and air pressure decreases
(C) air pressure decreases and air temperature increases
(D) air temperature decreases and air pressure increases

Q. 23. For a patient having _____, food containing more oil, *ghee* is completely prohibited.

- (A) diabetes (B) malaria (C) jaundice (D) TB

Q. 24. Akash is in Kolkata and Vasundhara is in Mumbai. Akash called Vasundhara and said, 'Red round Sun is looking beautiful at the horizon.' To which, Vasundhara replied, '_____.'

- (A) Ya! I too see the red round Sun at the horizon
(B) No, only red colour is seen at the horizon
(C) No, here it is still dark
(D) Sun has come far up from the horizon

Q. 25. Complete the analogy
Lithosphere : Shrubs :: Hydrosphere :: _____

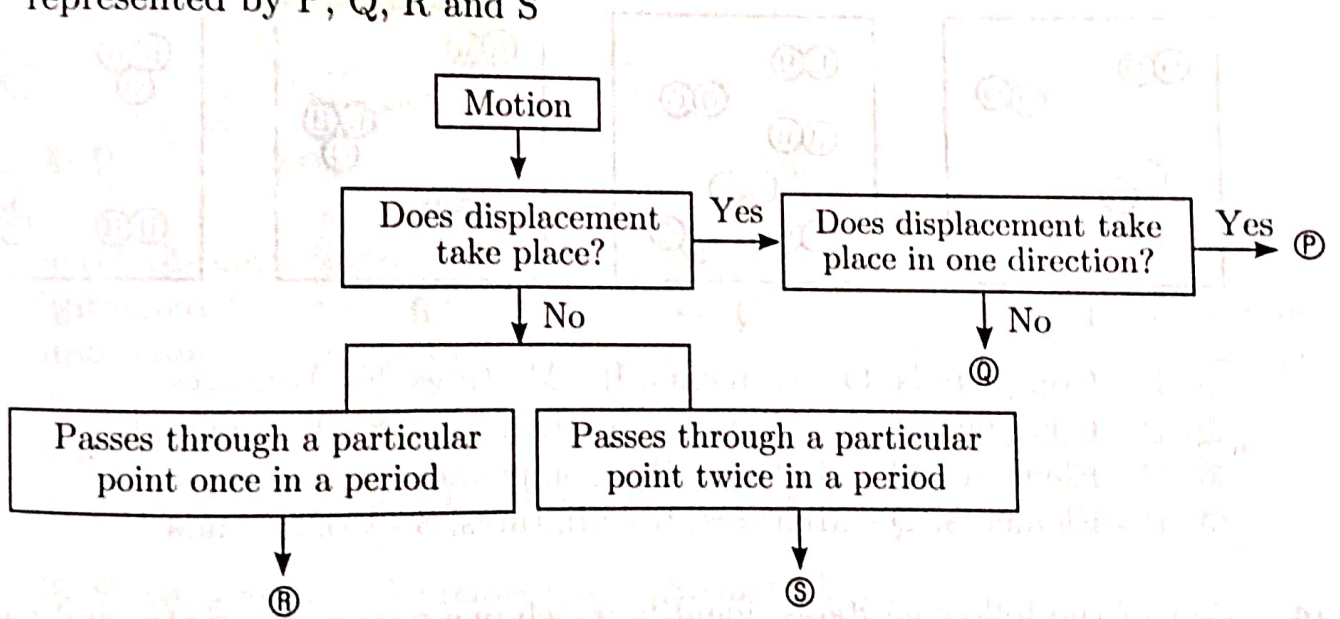
- (A) Pistia (B) Various types of cactus (C) Fungi (D) Grass

Q. 26. In which form the energy is stored in food?

- (A) Light (B) Heat (C) Chemical (D) Heat and Light

- Q. 27. Ramesh, Pramod, Sampada and Aarti are students of 9th standard. All of them have a bicycle as well as a moped. They all go to the same school by different modes of transport. Whose action is right according to the environment?
- (A) Ramesh walks to the school.
 (B) Pramod goes on moped.
 (C) Sampada's father drops her to school from his car.
 (D) Aarti goes by a public transport bus.
- Q. 28. If the number of frogs in a paddy field becomes less, what effect will be seen?
- (A) More crop, less number of snakes, increased grasshoppers.
 (B) Less crop, less number of snakes, increased grasshoppers.
 (C) Less crop, more number of snakes, increased grasshoppers.
 (D) More crop, more number of snakes, decreased grasshoppers.
- Q. 29. Fill in the blanks by selecting the correct alternatives.
 Blood containing Q is carried from heart to lungs by pulmoary P.
- (A) P - Vein, Q - Carbon dioxide (B) P - Vein, Q - Oxygen
 (C) P - Artery, Q - Carbon dioxide (D) P - Artery, Q - Oxygen
- Q. 30. Rohit filled water in a glass till the brim which already contained some ice cubes. He waited for the ice to melt. What must he have observed?
- (A) Water must have spilled out when the ice melted.
 (B) The water level must have reduced after melting of ice.
 (C) The water level will remain the same.
 (D) Cannot say exacty.
- Q. 31. For malnutrition, select an alternative which shows the correct reason, effect and solution - in that order.
- (A) Lack of sufficient food, improper growth, savoury titbits
 (B) Poverty, infant mortality, square diet
 (C) Family in disposition, infant mortality, savoury titbits
 (D) Infant mortality, poverty, square diet
- Q. 32. Which of the following is the common part of digestive and respiratory system?
- (A) Pharnyx (B) Larynx (C) Oesophagus (D) Trachea
- Q. 33. Which dangarous gas is prouduced by the combustion of coal?
- (A) Carbon dioxide (B) Sulphur dioxide
 (C) Nitrogen dioxide (D) Carbon monoxide
- Q. 34. Elevated houses on poles are usually found in _____.
- (A) warm region (B) snowy region
 (C) marshy region (D) desert region

- Q. 35. What causes a moving body to resist the change in its state of motion?
 (A) Mass (B) Speed (C) Inertia (D) Weight
- Q. 36. What is common among the following phenomena?
 1) Changes of season
 2) Blooming of flower
 3) Growth of nail and hair
 4) Growth of a plant from seed
 (A) All are physical changes (B) All are slow changes
 (C) All are fast changes (D) All are reversible changes
- Q. 37. While making an axe-blade, an ironsmith uses hot iron because when iron is hot, _____.
 (A) energy of iron particles increases
 (B) energy of iron particles decreases
 (C) attraction between iron particles (atoms) increases
 (D) attraction between iron particles (atoms) decreases
- Q. 38. If a fire cracker is ignited at a distance, its light is seen first, thereafter the sound is heard. Because _____
 (A) capacity of eyes > capacity of ears (B) capacity of eyes < capacity of ears
 (C) speed of light > speed of sound (D) speed of light < speed of sound
- Q. 39. Read the following flow chart carefully and find which type of motion is represented by P, Q, R and S



- (A) P - Linear, Q - Random, R - Oscillatory, S - Circular
 (B) P - Random, Q - Linear, R - Oscillatory, S - Circular
 (C) P - Random, Q - Linear, R - Circular, S - Oscillatory
 (D) P - Linear, Q - Random, R - Circular, S - Oscillatory

Q. 40. The school is 2 km away from the home. To draw a map the scale is 1 cm = 500 m. How much will be the distance on the map from the school to home?
 (A) 1 cm (B) 2 cm (C) 4 cm (D) 2.5 cm

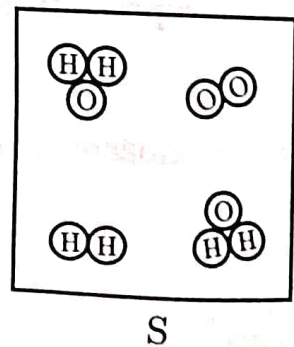
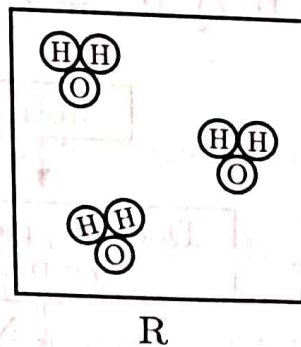
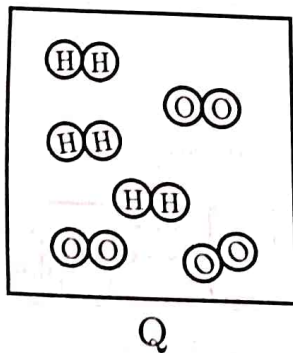
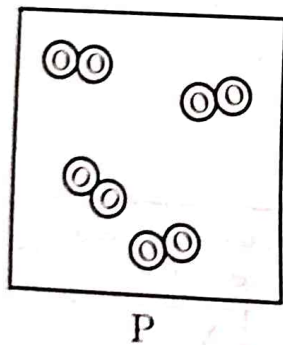
Q. 41. Find the odd man out depending on their work.
 (A) Nose (B) Stomata (C) Skin (D) Fin

Q. 42. The sticky substance seen on the trunk of *Babul* or Drumstick tree is X and Y is the process of formation of X. Find X and Y.
 (A) X - gum, Y - excreta (B) X - gum, Y - excretion
 (C) X milky sap, Y - excreta (D) X - milky sap, Y - excretion

Q. 43. Unit/Units used to measure the temperature is/are _____.
 (A) Kelvin (B) Celsius (C) Fahrenheit (D) all of these

Q. 44. When P and Q are mixed up and chemical reaction takes place, then _____
 (A) molecules of both compounds remain same
 (B) molecules of both compounds change
 (C) molecules of P remain same, but molecules of Q change
 (D) molecules of Q remain same, but molecules of P change

Q. 45. In the given figure, Oxygen and Hydrogen atoms are shown by (O) and (H) respectively. Identify the elements, compounds and mixtures.



- (A) P - Compounds, Q - Elements, R - Mixtures, S - Mixtures
 (B) P - Compounds, Q - Mixtures, R - Elements, S - Compounds
 (C) P - Elements, Q - Mixtures, R - Compounds, S - Mixtures
 (D) P - Elements, Q - Mixtures, R - Mixtures, S - Compounds

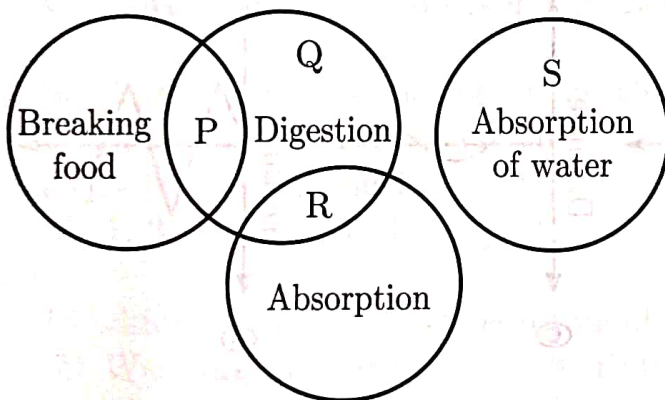
Q. 46. Out of the following items, identify which one mixes with water and which does not - in that order.
 (A) Alcohol, Spirit (B) Alcohol, Diesel (C) Diesel, Spirit (D) Kerosene, Diesel

Q. 47. If a solid substance melts at room temperature (32 °C), what can we say about its melting point (MP)?
 (A) MP < 32 °C (B) MP ≤ 32 °C (C) MP > 32 °C (D) MP ≥ 32 °C

- Q. 48. Which of the following doesn't yield wool?
 (A) Bear (B) Camel (C) Goat (D) Woolly Dog
- Q. 49. _____ threads are obtained using cotton and wood pulp.
 (A) Decron (B) Terylene (C) Rayon (D) Terrycot
- Q. 50. How will you change a saturated solution into unsaturated solution?
 (A) cool the solution (B) add solute into the solution
 (C) add solvent into the solution (D) remove solute from the solution

- Q. 51. Recognise the correlation and select the proper alternative.
 B1: Functions of nerves :: B9 _____
 (A) To protect from skin diseases (B) Body growth
 (C) Manufacture red blood corpuscles (D) To enable muscular cells

- Q. 52. Observe the diagram and find which of the given alphabets (P, Q, R or S) indicates the small intestine.



- (A) P (B) Q (C) R (D) S
- Q. 53. Select the correct alternative about the given statements:
Statement E - In our intestine, beneficial probiotics are present in millions.
Statement F - During loose motions and vomiting, the patient throws out these probiotics along with intestinal water and some medicines.
Statement G - To maintain the large number of probiotics, the patient needs to take extra yoghurt, buttermilk in the diet.
 (A) Statement G is the remedy for statement F
 (B) Statement F is the reason for statement G
 (C) Statement F is the reason for statement E
 (D) Statement F is the remedy for statement E

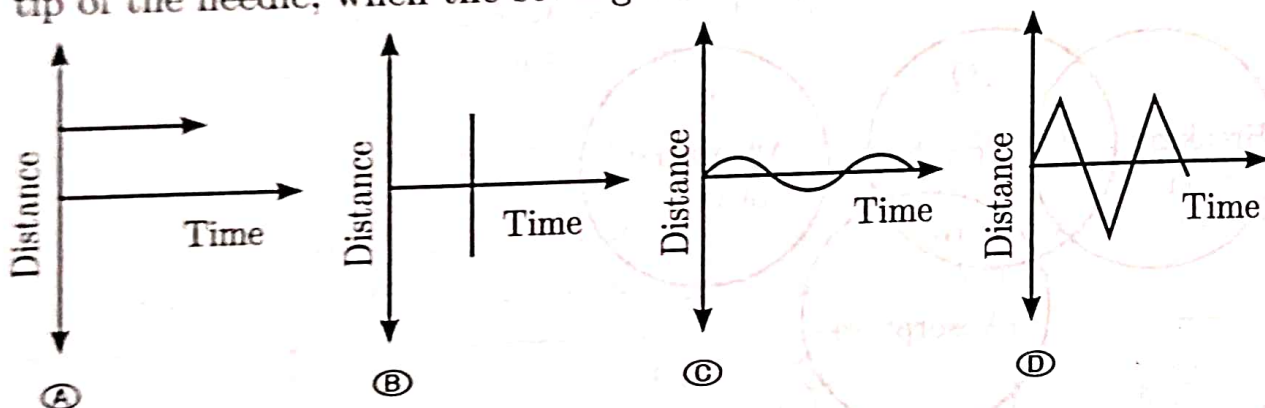
- Q. 54. The hardest substance in human body is _____.
 (A) teeth (B) bone (C) enamel (D) all of these

Q. 55. Which of the following factors contribute to the formation of a storm?
 (A) Speed of wind (B) Temperature
 (C) Humidity (D) Difference in air pressure

Q. 56. It is easy to carry load on a wheel-cart, because _____.
 (A) load need not be lifted due to wheel-cart.
 (B) the load is kept on the cart and does not touch the ground
 (C) friction is less while carrying the wheel-cart
 (D) gravitational force becomes less as goods are carried by the wheel-cart

Q. 57. A, B, C, D are four identical bottles. They are tied with identical balloons. Bottle A is kept in the cold water, B in ice, C in boiling water and D is kept in water at room temperature. Identify the balloon tied to which bottle which will inflate to its maximum level.
 (A) A (B) B (C) C (D) D

Q. 58. Identify the graph that shows the distance between the center position and tip of the needle, when the sewing machine is working.



Q. 59. On heating, _____
 (A) liquid changes to gas (B) solid changes to liquid
 (C) solid changes to gas (D) All of these

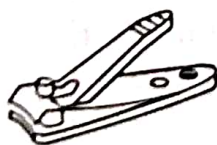
Q. 60. Mechanical Advantage (M. A.) = Effort Arm/Load Arm. So, for the second type of lever -

(A) M. A. = 1 (B) M. A. > 1 (C) M. A. < 1 (D) M. A. = 0

Q. 61. Which one from the following can be termed as a complex machine?



(A)



(B)

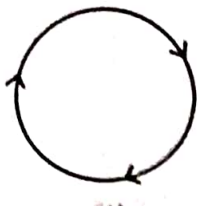


(C)

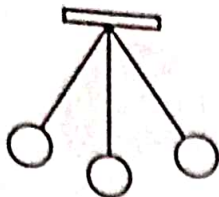


(D)

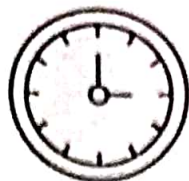
Q. 62. Which of the following motion/s is/are periodic as well oscillatory?



(i)



(ii)



(iii)



(iv)

(A) (i), (ii) and (iii)

(C) (i), (iii) and (iv)

(B) (ii) only

(D) (iii) only

Q. 63. Which of the following alternatives is inappropriate regarding effects of noise pollution?

(A) Mental distraction

(B) Mental fatigue

(C) Pain in hands and legs

(D) Lowered audibility

Q. 64. The rainbow is having seven colours, because _____.

(A) sunlight is made up of seven colours

(B) light undergoes dispersion when it enters a water droplet

(C) Both 1 and 2

(D) None of these

Q. 65. Select the correct equations from the following.

1 : Solution - Solute = Solvent

2 : Solvent + Solution = Solute

3 : Solute + Solution = Solvent

4 : Solvent + Solute = Solution

(A) 1, 3

(B) 1, 4

(C) 2, 3

(D) 2, 4

Q. 66. In which of the following equipments electromagnet is not used?

(A) Washing machine

(B) Refrigerator

(C) Electric heater

(D) Electric bell

Q. 67. Tides are caused by _____.

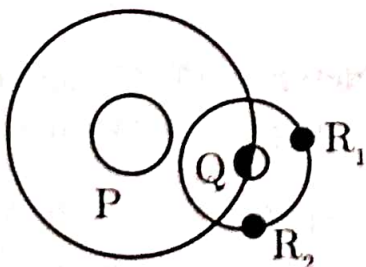
(A) gravitational pull of the Earth

(B) gravitational pull of the Sun

(C) gravitational pull of the Moon

(D) gravitational pull of both Sun and Moon

Q. 68. In the given figure, if P represents Sun, Q a planet, R_1 and R_2 as satellites of a planet; then Q is _____.



(A) Mercury

(B) Mars

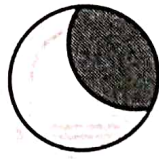
(C) Earth

(D) Moon

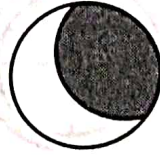
- Q. 69. Identify the correct phase of the Moon from the following on November 7, if the full Moon had appeared on November 1.



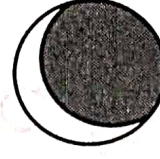
(A)



(B)



(C)



(D)

- Q. 70. Compass works with the help of _____.
- (A) magnetic force of the Moon (B) Moon's gravity
(C) Earth's gravity (D) Earth's magnetic force
- Q. 71. When sound travels through air, particles of air exhibit _____ motion.
- (A) linear (B) circular (C) oscillatory (D) random

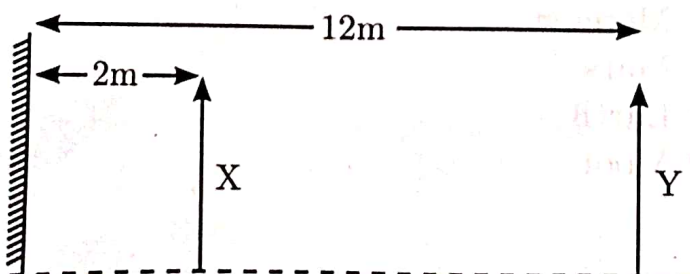
- Q. 72. Read the following statements carefully and select the correct alternative.
Statement X - Land is an important resource. It is necessary to stop erosion and enrich the soil.
Statement Y - If shrubs, grass, trees are grown on the land, erosion of soil can be reduced.
Statement Z - Floods, stormy wind, mining etc. can destroy soil in a short period of time.

- (A) Z is the reason and Y is the solution (B) Y is the reason and X is the solution
 (C) X is the reason and Z is the solution (D) X is the reason and Y is the solution

- Q. 73. A motor travelled 160 km in the first two hours of the journey and 20 km during the next one hour. Find the average speed of the motor.
- (A) 40 km/hr (B) 80 km/hr (C) 60 km/hr (D) 90 km/hr

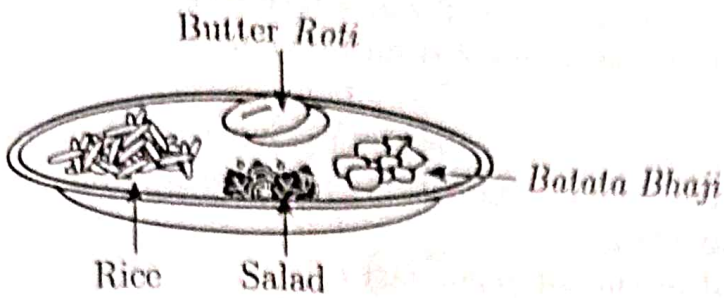
- Q. 74. Find the improper statement regarding sprinkle irrigation.
- (A) Sprinklers are used in this method
 (B) In this method, water is given to every plant separately
 (C) Water is given to circular area by this method
 (D) This method is cheaper than drip irrigation

- Q. 75. Two boys, X and Y, are standing in front of a plane mirror as shown in the figure. If Y walks 5 meter towards X, then how far away will X see the image of Y in the mirror?



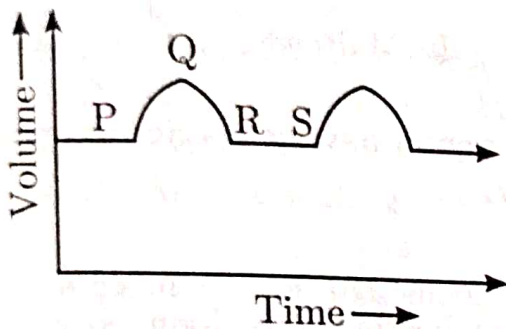
- (A) 9 meter (B) 10 meter
 (C) 11 meter (D) 14 meter

Q. 76. Which important component of the balanced diet is missing from the given image?



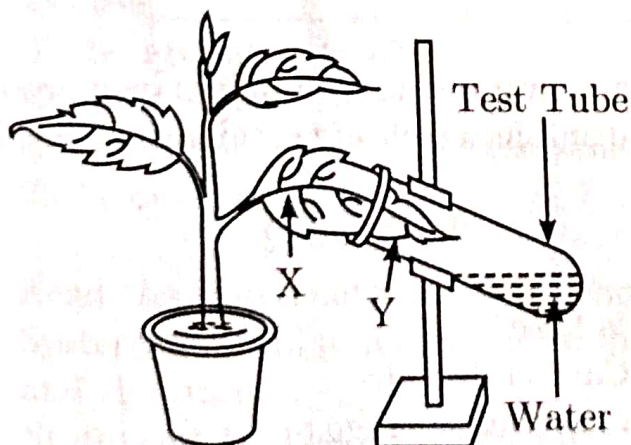
- (A) Vitamin (B) Carbohydrates (C) Proteins (D) Fats

Q. 77. In the adjacent graph, change in the size of lungs while breathing is shown. Which action is shown in the graph from point Q to R?



- (A) Inhalation (B) Exhalation
(C) Respiration (D) Excretion

Q. 78. Rama selected a leaf from a sunclad tree. Half portion of the leaf (X) was kept outside the test tube while the other half (Y) was kept inside the test tube containing water. After few hours, she put the leaf for starch test. In which part of the leaf could she find the starch?



- (A) Only X
(B) Only Y
(C) In both X and Y
(D) Neither X nor Y

Q. 79. Read the following statements carefully and select the most proper alternative:

Statement 1 : In the evening, street lights are switched on.

Statement 2 : Insects gather around the lighted lamp.

- Ⓐ Both the statements indicate incidents
- Ⓑ Both the statements indicate response
- Ⓒ Statement 1 is an incident and statement 2 is a response
- Ⓓ Statement 1 is response and statement 2 is an incident

Q. 80. A lake having some algae is situated near a farm. A scientist observed sudden increase in the algae in the lake. What might be the reason for this?

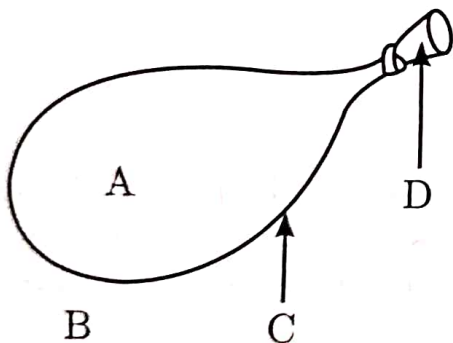
- Ⓐ Water level in the lake has risen
- Ⓑ Electronic waste is buried in the adjacent farm
- Ⓒ Water level is reduced
- Ⓓ Chemical fertilizers are used in large quantities in the adjacent farm

Q. 81. Complete the Analogy

Sugarcane : Sucrose :: Fruits : Fructose :: Milk : _____

- Ⓐ Glucose
- Ⓑ Lactose
- Ⓒ Dextrose
- Ⓓ Maltose

Q. 82. Observe the given figure and identify the region having maximum molecular crowd as the balloon is blown with the air.



- Ⓐ A – The air inside the balloon
- Ⓑ B – The air outside the balloon
- Ⓒ C – The blown surface of the balloon
- Ⓓ D – The part of the balloon that comes after the knot

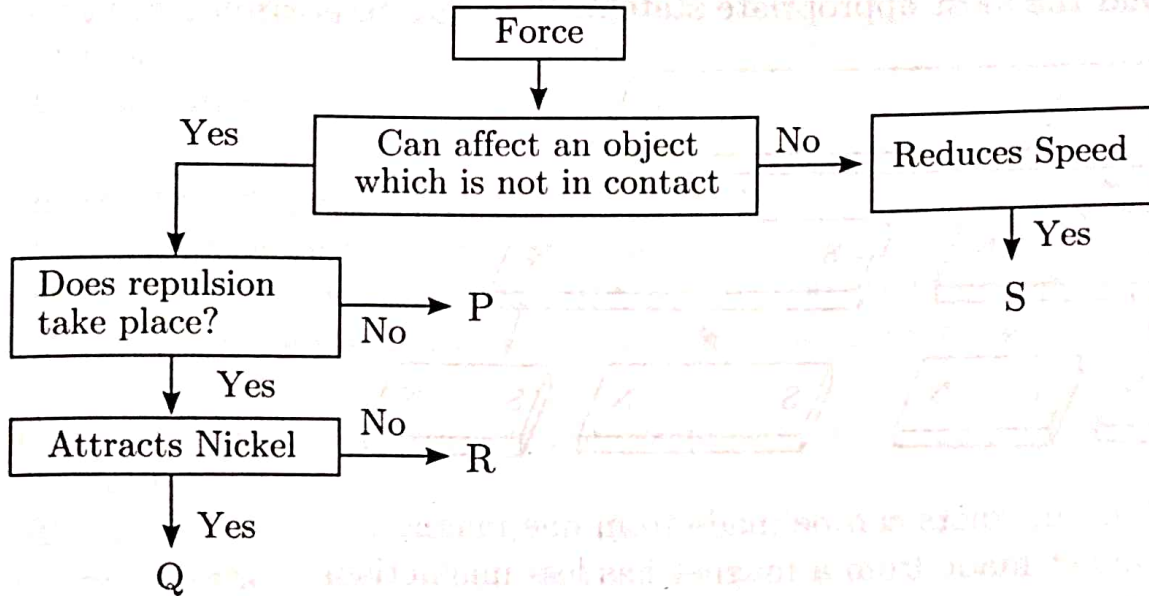
Q. 83. The bottles P, Q, R of cold drink are wrapped in a bubble paper, wool and aluminium foil, respectively. Cold drink in which of the following bottles will remain cold?

- Ⓐ P
- Ⓑ Q
- Ⓒ R
- Ⓓ P and Q

Q. 84. Which of the following statements is false?

- Ⓐ Lime water turns white due to Carbon dioxide
- Ⓑ Breaking of Ozone molecule is a chemical change
- Ⓒ Blue litmus turns red in lime Juice
- Ⓓ Oxygen is not combustible, but helps combustion

Q. 85. Observe the flow chart and find the correct options for P, Q, R, S.



- (A) P - Magnetic, Q - Static electricity, R - Gravitational, S - Mechanical
 (B) P - Gravitational, Q - Magnetic, R - Static electricity, S - Friction
 (C) P - Static Electricity, Q - Gravitational, R - Magnetic, S - Muscular
 (D) P - Mechanical, Q - Gravitational, R - Magnetic, S - Friction

Q. 86. If a blender is rotated, energy P is converted into energy Q and R. Find P, Q, R.

- (A) P - Mechanical, Q - Sound, R - Heat
 (B) P - Sound, Q - Heat, R - Mechanical
 (C) P - Electrical, Q - Heat, R - Potential
 (D) P - Electrical, Q - Kinetic, R - Sound

Q. 87. The shadow of a kite flying high in the sky is not seen on the ground, because _____.

- (A) the ground is too big
 (B) there is light between the kite and the ground
 (C) distance of the ground from the kite is much higher
 (D) None of these

Q. 88. Read the statements and select the correct alternative.

Statement P: In a maglev train, there is no friction between the rail and the train.

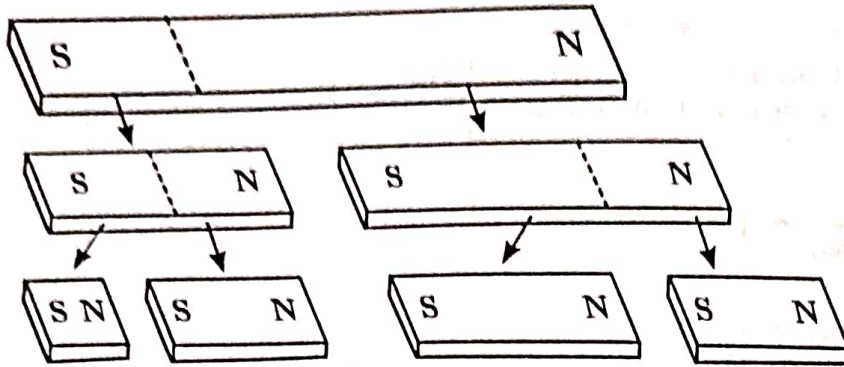
Statement Q: There is repulsion in like poles of an electromagnet.

Statement R: Maglev train has the highest speed.

- (A) P is the principle supporting Q and R is the effect of Q.
 (B) Q is the principle supporting P and R is the effect of P.
 (C) R is the principle supporting P and Q is the effect of P.
 (D) P is the principle supporting R and Q is the effect of R.

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Q. 89. In the following figure, a bar magnet is cut into pieces. Observe the figure and find the most appropriate statement.



- (A) Many magnets can be made from one magnet.
- (B) Magnet made from a magnet has less magnetism.
- (C) Two poles of a magnet cannot be separated from each other.
- (D) If a bar magnet is cut at any point on its length, two magnetic poles are generated at that point.

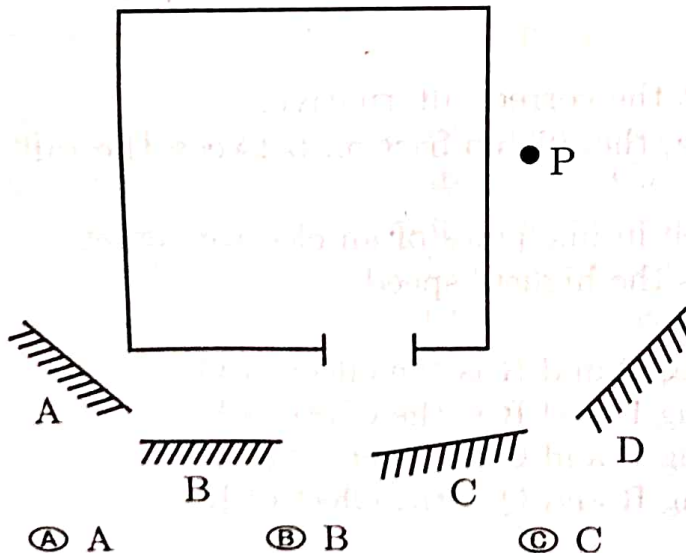
Q. 90. In circular motion, the _____.

- (A) direction of motion is fixed
- (B) direction of motion changes continuously
- (C) speed changes continuously
- (D) velocity is constant

Q. 91. Which solar eclipse was seen on 20th December 2019?

- (A) Total eclipse
- (B) Partial eclipse
- (C) Annular eclipse
- (D) Partial and Annular eclipse

Q. 92. In the given figure, there is a dark room. It has only one door. Outside the room, a bulb is hanged at a point P. Where should a mirror be placed to get the light in the dark room from that bulb?



- Q. 93. When a bowler offspins the ball, he/she gives which motion to the ball around its horizontal axis?
Ⓐ Linear Ⓑ Rotational
Ⓒ Oscillatory Ⓓ Rotational and Oscillatory
- Q. 94. In cold region, people use double-layered clothes such as thermal wear with sweaters, because the heat in our body _____.
Ⓐ could be conducted easily Ⓑ could not be conducted easily
Ⓒ could not be given away by convection Ⓓ radiates
- Q. 95. Registered snake rescuers are not permitted to _____.
Ⓐ catch the snakes
Ⓑ report the rescued animal to the forest department
Ⓒ release the rescued snake in the forest within 12 hours
Ⓓ use snake for business purpose
- Q. 96. The microbe that reproduce only inside the cell of the host organism is _____.
Ⓐ Bacteria Ⓑ Virus Ⓒ Protozoa Ⓓ Fungi
- Q. 97. Complete the analogy:
Tamalpatra : Leaves :: Cinnamon : Bark of stem :: Cloves : _____
Ⓐ Seeds Ⓑ Fruits Ⓒ Peduncle of flowers Ⓓ Leaves
- Q. 98. Why is an exhaust fan fitted near the roof of the factory?
Ⓐ To get fresh air inside the factory
Ⓑ To maintain cool air in the factory
Ⓒ To carry impure, dangerous and hot gases out of the factory
Ⓓ To avoid inconvenience on the shopfloor of the factory
- Q. 99. While roasting, groundnuts react chemically _____.
Ⓐ with sand
Ⓑ with the metal of roasting pan
Ⓒ with sand and the metal of roasting pan
Ⓓ with air
- Q. 100. Which test is used to identify COVID-19?
Ⓐ FT-PCR Ⓑ RT-PCR Ⓒ RP-PCR Ⓓ None of these