



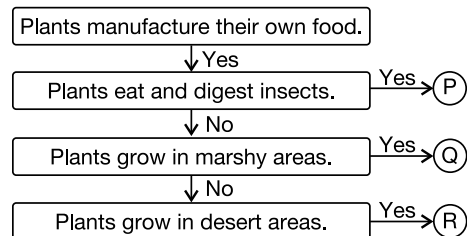
LEVEL - 2

Year 2016-17

SCIENCE

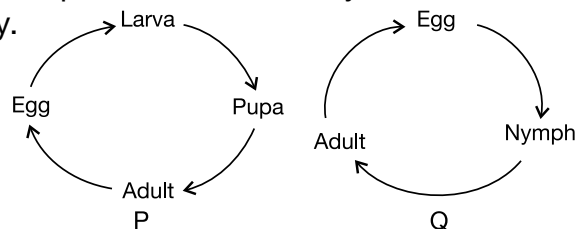
1. Refer to the given flow chart and select the INCORRECT option regarding plants P, Q and R.

- A. P generally grows in soil that is deficient in minerals like nitrogen.
 B. Q has special roots that grow above the soil to breathe air.
 C. Leaves of R may possess sunken stomata or may be reduced to spines.
 D. None of these

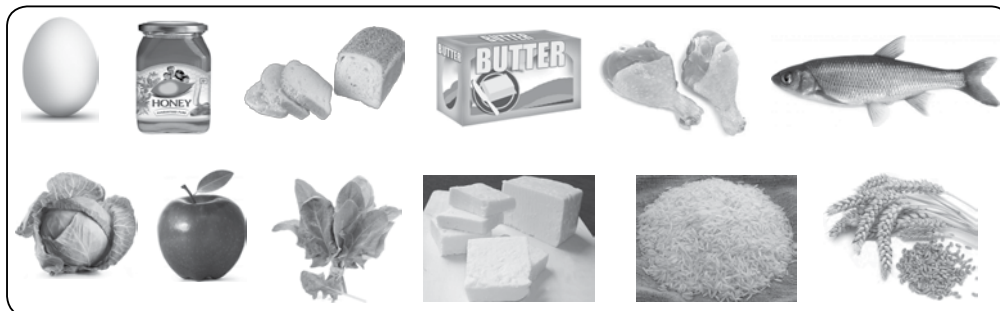


2. Study the two life cycles P and Q, and select the option that correctly identifies the organisms which show these cycles, respectively.

- | P | Q |
|----------------|-----------|
| A. Mosquito | Butterfly |
| B. Lizard | Frog |
| C. Housefly | Cockroach |
| D. Grasshopper | Dragonfly |



3. Some food items are shown in the given box.

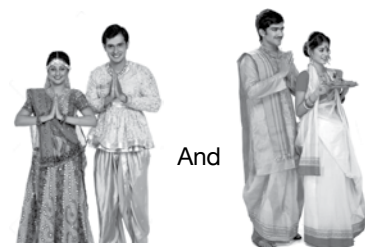


There are _____ energy giving foods, _____ body building foods and _____ protective foods.

- A. 5, 4, 3 B. 4, 4, 4 C. 3, 4, 5 D. 5, 2, 5

4. The couples shown in the given picture belong to which states of India respectively?

- A. Kashmir and Maharashtra
 B. Sikkim and Odisha
 C. Gujarat and West Bengal
 D. Uttar Pradesh and Kerala

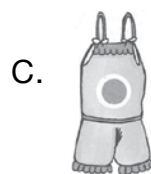


5. Starting from the first letter, strike out every alternate letter to get the name of a food preservation method and select the correct option.

- A. RFORSYPIQNLGD B. PCOARNCNEILNAGI
 C. CSETFEGAHMJIKNLGM D. FRGOHAISOTPIQNRGS

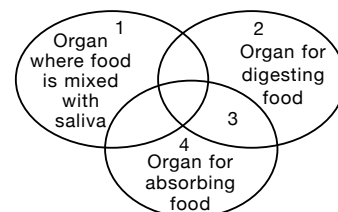
 SPACE FOR ROUGH WORK

6. During her summer vacations, Nishtha is going to a place where stilt houses and floods are very common. Which of the following should she preferably pack in her luggage?

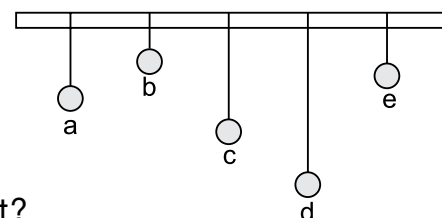


7. Which of the labelled areas in the Venn diagram represents the small intestine?

- A. 1
B. 2
C. 3
D. 4



8. Ravi set up an experiment as shown in the given figure. The figure shows five identical balls being suspended on a rod by strings of different lengths. Ravi then cut all five strings at the same time and the balls were allowed to fall freely to the ground.



Which of these statements holds true for this experiment?

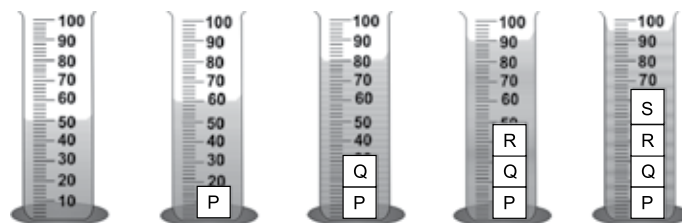
- A. Ball 'b' had the greatest impact on the ground.
B. Ball 'a' had less gravitational potential energy than ball 'c' at the start.
C. Ball 'd' had the most gravitational potential energy at the start.
D. Balls 'a' and 'e' had different amounts of gravitational potential energy at the start due to their different positions along the rod.
9. Four objects P, Q, R and S of different volumes are placed in a measuring cylinder one by one and the subsequent rise in water level is shown in the given figures. The object with the lowest volume is _____.

A. P

B. Q

C. R

D. S



10. Match column I with column II and select the correct option.

Column I

1. Adaptation for flight
 2. Adaptation for protection from enemies
 3. Adaptation for eating flesh
 4. Adaptation for living in cold region
 5. Adaptation for living in water
- A. 1-(b), 2-(c), 3-(a), 4-(d), 5-(e)
C. 1-(e), 2-(d), 3-(b), 4-(c), 5-(a)

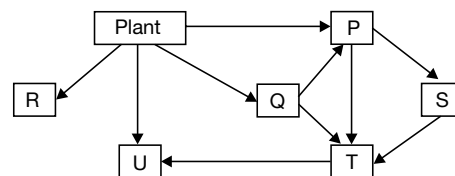
Column II

- (a) Gills
 - (b) Sharp and well developed canines
 - (c) Thick layer of fat under skin
 - (d) Camouflage
 - (e) Hollow bones
- B. 1-(a), 2-(e), 3-(c), 4-(b), 5-(d)
D. 1-(c), 2-(b), 3-(e), 4-(a), 5-(d)

SPACE FOR ROUGH WORK

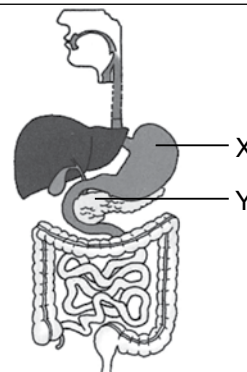
11. In the given food web, P, Q, R, S, T and U are consumers. Which of these consumers are both plant and animal-eaters?

A. P and S B. Q and U
C. R and T D. P and U



12. Refer to the given diagram of human digestive system and select the correct option regarding parts, X and Y.

A. In part X complete digestion of all components of food takes place.
B. If part Y is removed in a person, then he/she will not be able to digest carbohydrates at all.
C. Both X and Y pour their digestive juices in small intestine for digestion of various components of food.
D. Y secretes a digestive juice which is capable of digesting fats, proteins and carbohydrates present in food.



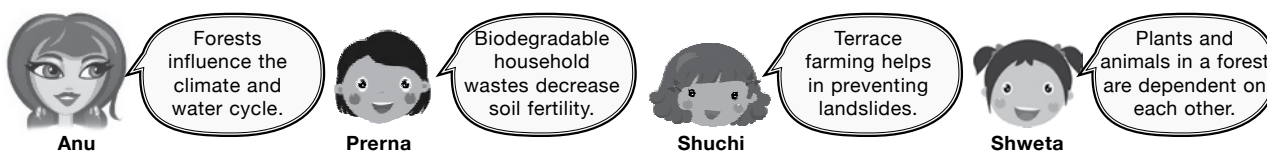
13. Study the given table.

Which of the following can be inferred regarding the two surfaces?

A. Surface X acts like a mirror.
B. Surface Y may act like a mirror.
C. Surface X reflects light better than surface Y.
D. None of these

Property \ Surface	Rough	Shiny
X	✓	✗
Y	✗	✓

14. Four of Mrs. Singh's pupils made statements related to environment.



Which pupil made an INCORRECT statement?

A. Shuchi and Prerna only B. Prerna only
C. Anu and Shweta only D. Shweta only

15. Unscramble the given letters to get the name of an adaptation which is shown by the given animal.

A. LUEBBRB B. AOFAUCMLEG
C. ILGSL D. ETEFRHA



16. X is the largest and fastest spinning planet whereas Y is the brightest planet of our Solar system. Identify X and Y and select the correct option regarding them.

A. X is wider than 18 Earths if kept side by side.
B. Y is called morning or evening star as it is seen at dawn or dusk.
C. X is covered with thick layer of blue green gas.
D. Rings of Y are made up of ice, rocks and dust.

SPACE FOR ROUGH WORK

17. Select the INCORRECT match.

- A. Mangrove - Breathing roots
C. Venus flytrap - Roots trap insects

- B. Cactus - Photosynthetic stems
D. Tape grass - Ribbon like narrow leaves


18. Study the given word chop table.


Which of the following sets of boxes will give the names of traditional clothings of Kerala and Korea, respectively?


- A. 2 and 8, 4 and 5
B. 1 and 6, 5 and 3
C. 7 and 3, 4 and 9
D. 1 and 7, 2 and 5

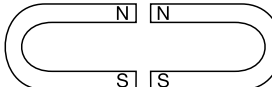
1	2	3
MUN	KIM	BOK
4	5	6
KUR	HAN	DU
7	8	9
JACK	ONO	TA

19. The given options show pair of magnets each. Which pair of magnets will attract each other?

A. 

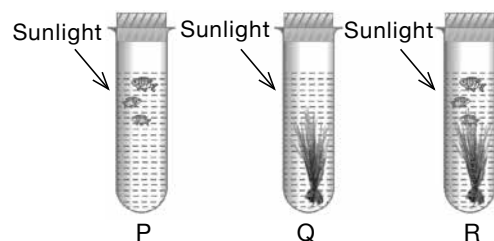
B. 

C. 

D. 

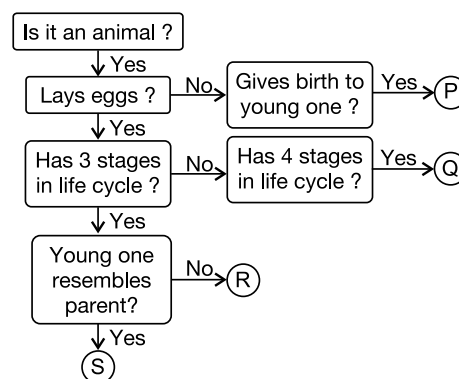
20. Rohit performed an experiment wherein he set up three test tubes as shown in the figure. Select the INCORRECT statement regarding this.

- A. Test tube P will have most carbon dioxide after three hours.
B. Test tube Q will have least oxygen after three hours.
C. Organisms in test tube R will survive for a longer time as compared to organisms in test tubes P and Q.
D. No oxygen will remain in test tube P after some time.



21. Refer to the given flow chart and select the correct option regarding P, Q, R and S.

- A. P could be duck-billed platypus or spiny ant eater.
B. Q exhibits one non-feeding stage in its life cycle.
C. R could be frog or hen.
D. All the stages of the life cycle of S are feeding and S could be beetle or botfly.



22. Select the INCORRECT match from the following.

- A. Vitamin A-Fish oil- Keeps eyes healthy
B. Iron-Beetroot-Helps in formation of blood
C. Potassium - Lemon - Necessary for healthy gums
D. Calcium - Milk - Makes our bones and teeth strong

SPACE FOR ROUGH WORK

23. Study the given word grid carefully. What is the number of natural fibres and synthetic fibres, hidden in the grid?

P	Z	A	K	S	M	P
O	W	C	O	I	B	G
L	W	O	O	L	A	F
Y	Q	T	X	K	N	L
E	C	T	Y	U	T	A
S	N	O	W	R	V	X
T	E	N	Y	L	O	N
E	G	M	E	T	P	K
R	H	D	E	A	L	R

Natural fibres

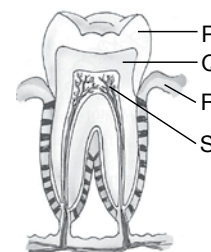
Synthetic fibres

- | | | |
|----|---|---|
| A. | 4 | 2 |
| B. | 2 | 1 |
| C. | 1 | 3 |
| D. | 4 | 3 |

24. Select the activity which is different from the other three based on the types of force involved.

- A. A person climbing up a mountain using rope
- B. Making chapati out of dough
- C. Lifting a heavy bag kept on floor
- D. Drawing water out of well using rope

25. Refer to the given diagram of human tooth and select the correct option regarding its parts P, Q, R and S.



- A. P is the soft, white and shiny part of tooth.
- B. Q is root whereas R is crown of tooth.
- C. S nourishes Q as it contains blood vessels and nerves.
- D. Q is a soft tissue which anchors the tooth inside gums.

26. In which of the following cases, the person is NOT doing any work in terms of science?

- A. Rohan is throwing a ball.
- B. Sukriti is standing while carrying her school bag on her shoulders.
- C. Vidushi is trying to move a tree by pushing it.
- D. Both B and C

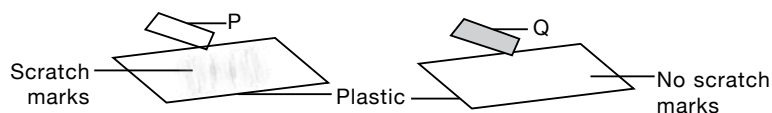
27. The name of which of the following CANNOT be obtained by using the letters given in the box (you can use each letter more than once).

- A. An insect which sucks our blood
- B. A wingless insect
- C. An insect from which honey is obtained
- D. A social insect that destroys wooden items

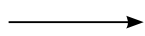
M	S	U	T	E	W	L	H	F
V	P	N	A	R	I	Q	O	

28. Dinesh wanted to test how hard are the objects made of materials P and Q, so he performed an experiment as shown.

Which of the following shows the hardness of objects P, Q and plastic in the correct order?



Hardest

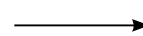


Softest

A. P → Q → Plastic

C. Q → Plastic → P

Hardest





Softest

B. P → Plastic → Q

D. Plastic → P → Q

SPACE FOR ROUGH WORK

29. If  Moon was observed on 7th July then,  Moon will be observed on _____.

- A. 15th July B. 28th July C. 30th July D. 21st July

30. Manoj crossed out 'mushroom' from the given group because he felt that it did not belong to this group.

Which of the following statements support Manoj's conclusion?



Mushroom



Cactus



Mimosa



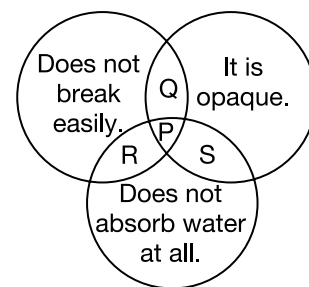
Coconut tree

- (a) Mushroom is a plant while the rest are not.
 (b) Mushroom is a fungus while the rest are not.
 (c) Mushroom feeds on decaying things while the rest do not.
 (d) Mushroom cannot make its own food while the rest can.
- A. (b) and (c) only B. (a), (b) and (d) only
 C. (a), (c) and (d) only D. (b), (c) and (d) only

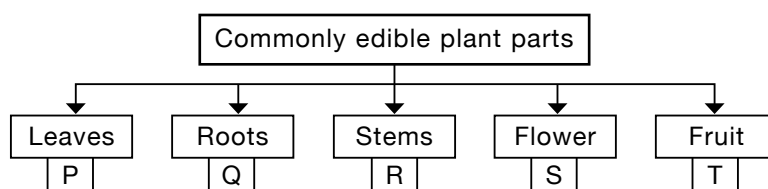
ACHIEVERS SECTION

31. Refer to the given Venn diagram and select the option that correctly identifies P, Q, R and S.

- | P | Q | R | S |
|---------------------|------------------|--------------|----------------|
| A. Steel tiffin box | Wooden pen stand | Plastic jar | Aluminium foil |
| B. Spectacles | Butter paper | Wooden door | Raincoat |
| C. Mirror | Plastic tumbler | Glass bangle | Eraser |
| D. Frosted glass | Cardboard | Rubber band | Wooden spoon |



32. Refer to the given flow chart and select the correct option regarding P, Q, R, S and T.



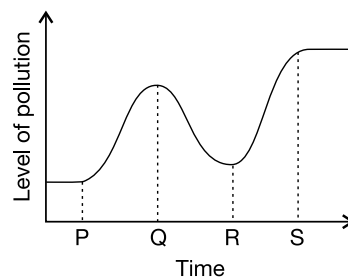
- | P | Q | R | S | T |
|--------------|--------|---------|-------------|---------|
| A. Tomato | Potato | Okra | Cauliflower | Mustard |
| B. Spinach | Banana | Carrot | Basil | Clove |
| C. Radish | Turnip | Lotus | Broccoli | Pumpkin |
| D. Coriander | Rice | Brinjal | Sugarcane | Lettuce |

SPACE FOR ROUGH WORK

33. The given graph shows how the level of pollution changes in an area over a time period.

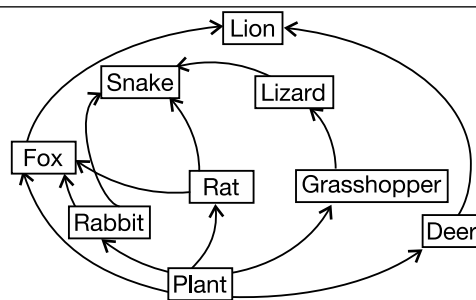
Which of the following can be most likely concluded from the given graph?

- A. Trees were cut in large numbers in that area at point P.
- B. A new factory was set up in the area at point Q.
- C. The interval R-S shows that people started recycling waste and switched to public transport instead of using their personal transports.
- D. None of these

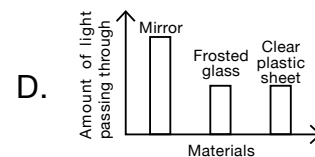
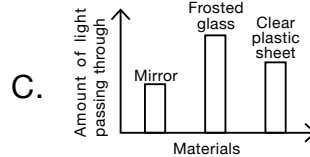
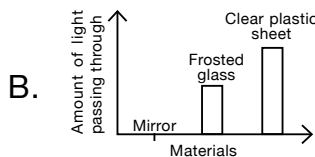
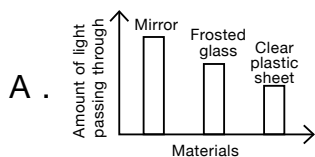


34. Refer to the given food web and select the correct option regarding it.

- A. There are six food chains in the given food web.
- B. Rabbit, rat, grasshopper and deer feed only on plants.
- C. Two animals in this food web feed on both plants and animals.
- D. If fox and deer are removed from the area where this food web is operating, then lion population will increase tremendously.



35. Shweta conducted an experiment to find out the amount of light that can pass through a mirror, a frosted glass and a clear plastic sheet. She shone a torch on these three materials one at a time and used light sensors to measure the amount of light that passed through each of them. Which of the following graphs correctly shows the result of her experiment?



SPACE FOR ROUGH WORK