

Reasoning

1. If a meaningful word is formed using the letters R, I, H, C, A, which of the following phrases matches with the word so formed ?

- A. Used for sleeping B. Used for sitting C. Used for Eating D. Used for Playing

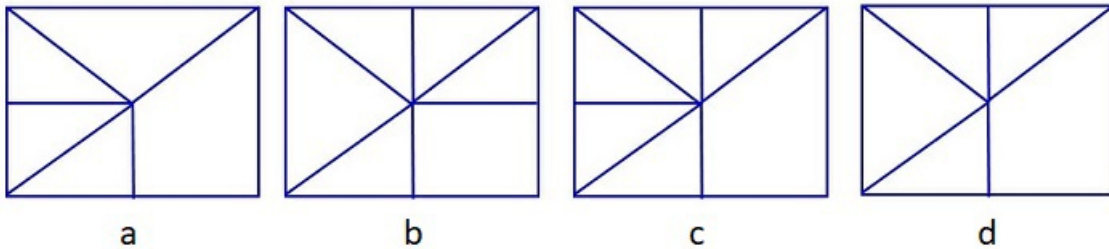
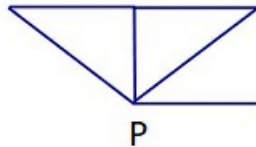
2. Consider the following series:

A, U, S, T, R, A, L, I, A

If all the vowels from the above series are removed then which alphabet will be the second last from left among the remaining alphabets of the series ?

- A. L B. R C. S D. T

3. In which of the following options , the given figure P is completely embedded ?



- A. a B. b C. c D. d

4.

Rehan has following quantities of blazers, trousers and Shirts. How many possible combinations of 1 blazer, 1 trousers and 1 shirt can Rehan make if he does not wear Red blazer with Blue trousers?

Blazers 1 Red, 1 Black

Trousers 1 Black, 1 Blue

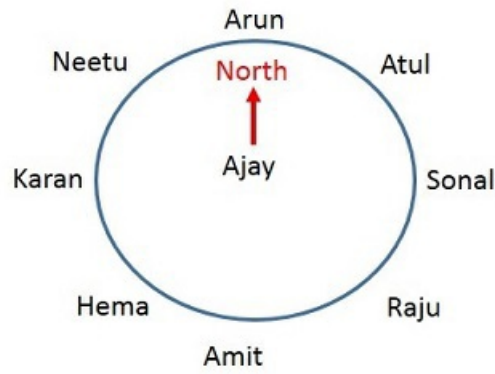
Shirts 1 White, 1 Green, 1 Black

- A. 12 B. 9 C. 10 D. 14

5. Following figure shows 9 friends sitting around a circle with Ajay at the centre. They form a team such that it consists of:

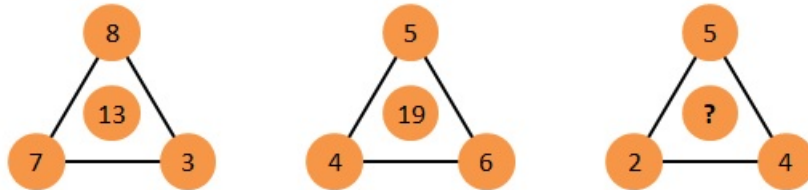
- i) Person sitting North-East of Ajay
- ii) Person sitting West of Ajay
- iii) Person Sitting South-West of Ajay

Which of the following represents the team ?



- A. Atul-Karan-Hema B. Atul-Karan-Neetu C. Atul-Karan-Raju D. Atul-Raju-Hema

6. What value will come in place of question mark if same rule applies in all of the following figures ?

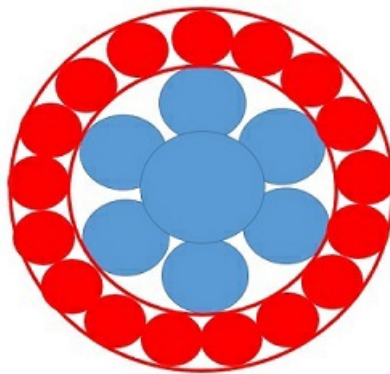


- A. 7 B. 11 C. 3 D. 1

7. If WASTE is coded as 73524 and HILL is coded as 1988 then what will be code of WHALE ?

- A. 73184 B. 71383 C. 71384 D. 71484

8. How many circles are there in the following figure ?



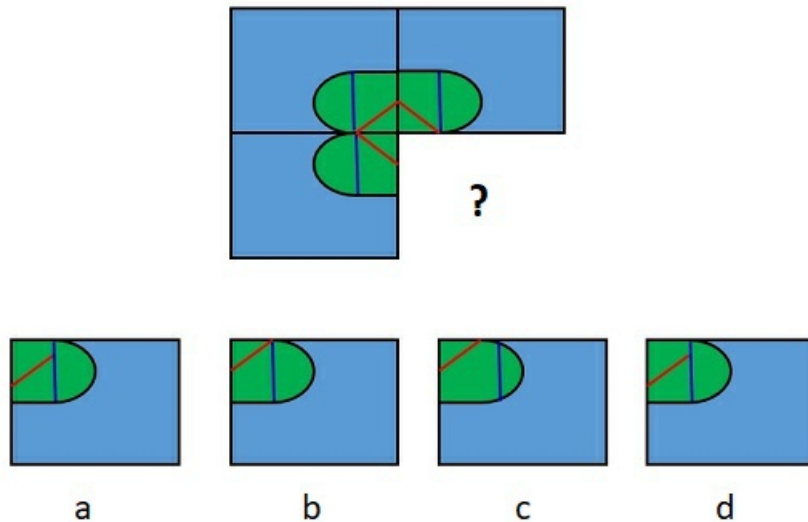
- A. 24 B. 25 C. 26 D. 27

9. What will be the value of P in the following sequence ?



- A. 512 B. 128 C. 64 D. 256

10. Which of the options will complete the following figure ?



- A. a B. b C. c D. d

Science

11. Rohit: Boiling helps in water purification as it can remove insoluble particles.
Mohit: Boiling will not remove particles of impurity but will kill harmful germs.

- A. Rohit is correct B. Mohit is correct C. Both are correct D. Both are incorrect

12. Consider following statements:

- A) Contraction and expansion of bones help in movement of body parts.
B) Contraction and expansion of muscular tissues help in movement of body parts.

- A. A is correct and B is incorrect B. A is incorrect and B is correct C. Both are correct D. Both are incorrect

13. Which of the following is incorrect?

- A) Water hyacinth and hydrilla are invasive in nature.
B) Lotus's flower and leaves are emergent that means they rise above water.
C) Water lily's flower and leaves float on water.
D) Lotus and water lily have woody stems.

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

14. _____ are four in numbers. They are more prominent in flesh eating animals. They are used for tearing the food.

- A. Incisors B. Canines C. Premolars D. Molars

15. A silk casing spun by the larva or the pupa for its protection is called _____

- A. caterpillar B. chrysalis C. cocoon D. moth

16. Which of the following cannot be counted as green energy?

- A) Coal
B) Tidal
C) Solar
D) Fossil fuels

- A. A B. D C. B and C D. A and D

17. Micky: Earthquake is a manmade disaster. It causes the land to shake.

Vicky: Earthquake is a natural calamity. Its intensity is measured in richter scale.
Who is incorrect?

- A.** Micky **B.** Vicky **C.** Both of them **D.** None of them
-

18. I am the brightest star in Ursa minor constellation. I am known as the north star or pole star. I am _____

- A.** Hercules **B.** Sun **C.** Polaris **D.** Orion
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19. Which of the following are caused by mosquitoes?

- A) Dengue
B) Malaria
C) Chikungunya
D) Zika

- A.** A and B **B.** B and D **C.** A, B and C **D.** All of these
-

20. Consider the following statements:

- A) Pancreas is the largest gland in our body.
B) Pancreas secretes pepsin which is used in digesting proteins.

- A.** A is correct and B is incorrect **B.** A is incorrect and B is correct **C.** Both are correct **D.** Both are incorrect
-

21. Consider following statements :

- A) Babool and Kikar are found in wet regions.
B) Forest in hilly areas have cone-shaped trees and are thus called coniferous forests. Cone shape prevents snow from collecting over trees.

- A.** A is correct and B is incorrect **B.** A is incorrect and B is correct **C.** Both are correct **D.** Both are incorrect
-

22. Lina: Air pollution causes respiratory diseases.

Tina: Jaundice is a respiratory disease.

- A.** Lina is correct **B.** Tina is correct **C.** Both are correct **D.** Both are incorrect
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23. Which of the following is true?

- A) Sun is the centre of solar system.
B) Moon is one of Earth's many natural satellites.
C) Mercury is the hottest planet.
D) Venus is the hottest planet.

- A.** A **B.** B and C **C.** A and D **D.** All of these
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24. Which of the following is false :

- A) Birds don't have teeth but they use their beak for breaking and tearing their food.
B) Beaks of different birds are of different shapes and sizes.
C) Beak directly depends upon the habitat of the bird.
D) Shape and size of beak depend upon the feeding habit of a bird.

- A.** A **B.** B **C.** C **D.** D
-

25. Identify the forces acting in the following diagram :



(A)



(B)



(C)



(D)

A. A-Push, B-Gravity, C-Pull, D-Friction

B. A-Friction, B-Push, C-Gravity, D-Pull

C. A-Pull, B-Gravity, C-Friction, D-Push

D. A-Pull, B-Gravity, C-Push, D-Friction

26. Match the following :

A) Wheel barrow	1) Wedge
B) Knife	2) Lever
C) Crane	3) Pulley
D) Bicycle	4) Wheel and axle

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

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

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

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

27. Roughage presents in vegetables, fruits and whole grain bread helps in

A. Cooking of food

B. Digestion of food

C. making food healthy

D. nothing

28. From the following options pick the one which shows the environment- friendly bags?

A) Plastic bags

B) Jute bags

C) Paper bags

D) Polythene bags

A. A and B

B. C

C. B and C

D. C and D

29. Which of the following is correct?

A. Autotrophs prepare their own food.

B. Heterotrophs prepare their own food with the help of sunlight.

C. Decomposers decompose organic matter and convert it back to nutrients so that they can be reused by the producers.

D. Scavengers feed on dead animals and plants, and help in breaking organic matter into smaller pieces.

A. A and B

B. A, C and D

C. C and D

D. All of these

30. Find the odd one out :

- A) Trachea
- B) Villi
- C) Alveoli
- D) Diaphragm

A. A

B. B

C. C

D. D

Achievers Section

31. Sonu created a model for hot air balloon using a garbage bag as shown in the figure. He used candle for heating the air. His model floats in the air because :



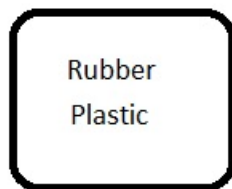
A. Garbage bag is light

B. Heating makes air inside garbage bag less dense.

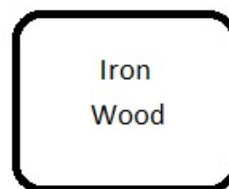
C. Garbage bag expands on heating

D. Candle fumes and smoke lift the garbage bag up in the air

32. Following materials are grouped on the basis of :



Group A



Group B

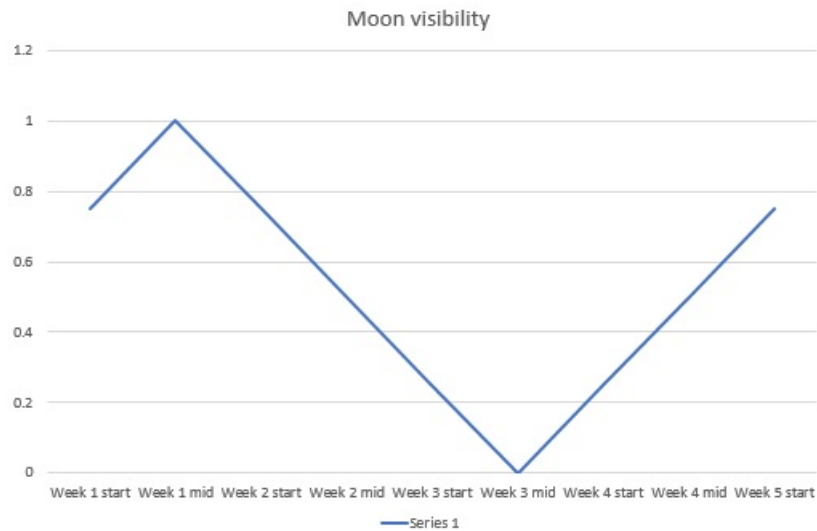
A. Group A materials are flexible and Group B material are bio-degradable.

B. Group A materials are non-biodegradable and Group B material are bio-degradable.

C. Group A materials have low melting point and Group B materials are strong.

D. Group A materials have low melting point and Group B materials are good conductors of heat.

33. Following graph is showing :



- A.** Lunar cycle starting from new moon **B.** Lunar cycle starting from wanning gibbous **C.** Lunar cycle starting from waxing crescent **D.** Lunar cycle starting from waxing gibbous

34. Whose statement is correct?

Tina

Sam

Riya

- A.** Tina only **B.** Sam only **C.** Tina and Sam **D.** Sam and Riya

35. Who is correct?

Ravi : Solids are generally heavier than liquids as their particles are very close.

Amit : Ice is lighter than water.

A. Ravi is correct

B. Amit is correct

C. Both are correct

D. Both are incorrect