

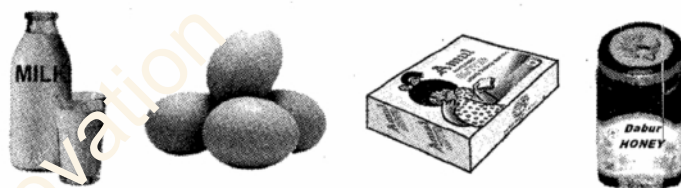
1. The food items shown in the figure are sources of mainly



- A. Fats
- B. Carbohydrates
- C. Proteins
- D. Vitamins

2. Vitamin B group deficiency in the human diet causes

- A. Pernicious anaemia, beri-beri, pellagra
- B. Rickets, pellagra, beri-beri
- C. Night blindness, scurvy, beri-beri
- D. beri-beri, scurvy, pellagra



3. What is the source of food articles shown in the given figures?

- A. Plants
- B. Animals
- C. Humans
- D. Both (A) & (B)

4. Which of the following can lead to a greater risk of heart disease?

- A. Regular exercise
- B. Eating fatty foods
- C. Eating fresh food
- D. Wearing dirty clothes

5. If P represents the fibre and Q represents the fabric, find out the correct order in which Q is made from P

- A. P, weaving, spinning, obtained from plant, yarn, Q
- B. P, obtained from plant, spinning, weaving, yarn, Q
- C. P, obtained from plant, spinning, yarn, weaving, Q
- D. None of the above

6. Which of the following can be used as an unstitched piece of fabric?

- A. Dhoti
- B. Turban
- C. Skirt

D. Both (A) & (B)

**First day white, next day red,  
third day from my birth,  
I'm dead.**

7. The above rhyme is referred to

- A. Cotton flower
- B. Jute flower
- C. Marigold
- D. Rauwolfia

8. Select the correct statement from the following

- A. Jute is obtained from stem of Patsan plant
- B. Coir obtained from cotton is a weak fibre
- C. The process of making yarn from fibre is called weaving
- D. Both (A) & (B)

9. When no more salt can be dissolved in water at a particular temperature then the solution at that temperature is called

- A. Unsaturated
- B. Saturated
- C. Sometimes saturated sometimes unsaturated
- D. None of the above

10. Read the following activity and answer. Take 5 g of solid camphor in a china dish and cover it with inverted funnel. Plug the stem of the funnel with cotton. Heat the dish.



What is this process known as?

- A. Sublimation
- B. Crystallization
- C. Evaporation
- D. Sedimentation

11. Read the following activity and answer. Take 5 g of solid camphor in a china dish and cover it with inverted funnel. Plug the stem of the funnel with cotton. Heat the dish.



What is true about the above activity?

- A. Heat changes the camphor to vapour
- B. Crystals of camphor get deposited on the inner walls of the funnel
- C. Both (A) & (B)
- D. None of the above

12. Which reason is incorrect for separating components of a mixture?

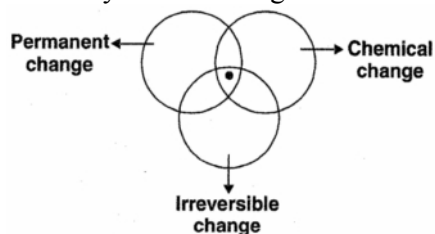
- A. To separate two or more different but useful components
- B. To remove undesirable and useless components
- C. To remove pure or harmless components
- D. To obtain pure sample of a substance

13. In which of the following cases the heat energy is given out?

- (i) When water boils
- (ii) When ice melts
- (iii) When water freezes to ice
- (iv) When water vapour condenses to water

- A. In (i), (ii) & (iii)
- B. In (iii) only
- C. In (iv) only
- D. In both (iii) & (iv)

14. Study the venn diagram



Centre point represents

- A. Melting of ice
- B. Boiling of water
- C. Rusting
- D. Condensation

15. Which of the following changes can be reversed?

- A. Batter to idli
- B. Bud to flower
- C. Cowdung to biogas
- D. Ice-cream to molten ice-cream

16. When a little bit of curd is added to milk and it is left undisturbed for sometime, the milk changes into curd. It is an example of

- A. Fast chemical change
- B. Fast physical change
- C. Slow chemical change
- D. Slow physical change

17. Which of the following is/are involuntary movements?

- A. Muscular movements in the food pipe
- B. Beating of the heart
- C. Movement of legs
- D. Both (A) & (B)

18. The given figure shows



- A. Rhythmic movement of the abdomen
- B. Mechanism of plant respiration
- C. Response to stimulus
- D. All of these

19. Animals show locomotion but plants do not. What is the reason for this?

- A. Plants are autotrophs
- B. Plants are heterotrophs
- C. Plants have organs of defence
- D. None of these

20. Which of the following functions does our skeletal system performs?

- A. It gives shape and form to the body
- B. It allows body parts to perform various types of movements
- C. It protects our delicate internal organs
- D. All of the above

21. Spinning of a top is an example of

- A. Rotatory motion
- B. Translatory motion
- C. Vibratory motion
- D. Oscillatory motion

22. The motion of the arms of a soldier marching along the road is

- A. Circular
- B. Oscillatory
- C. Rotatory
- D. No periodic

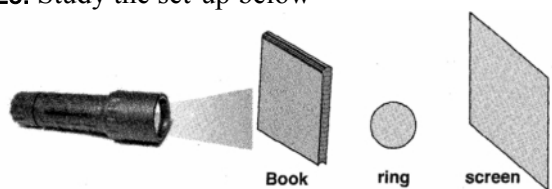
23. Which of the following is/are examples of rectilinear motion?

- A. A train moving on a straight railway track
- B. A freely falling stone
- C. A coin moving over a carom board
- D. All of the above

24. What happens when light falls on a wooden chair?

- A. Light is reflected from the chair to our eyes
- B. Light passes through the wooden chair
- C. The chair sends a signal to our eyes that enables us to see it
- D. Energy is given out by the chair

25. Study the set-up below



Which of the following shows what the shadow will look like?

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

26. The essential condition for the formation of shadow is

- A. There should be an opaque material
- B. There should be a source of light and screen
- C. The object must be placed in the path of light
- D. All of these

27. A tester is used by the electrician to determine

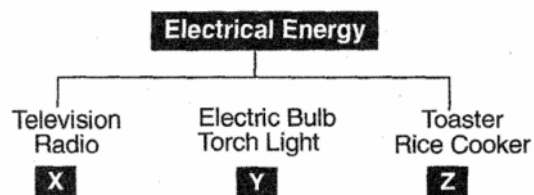
- A. The presence of electric current
- B. The temperature
- C. The amount of electric current
- D. The rate of flow of electric current

28. Ben's torch does not light up. This is because



- A. The positive terminal of one battery is not connected to the negative terminal of the next battery
- B. The batteries are connected in parallel
- C. The metal tip of the bulb is not connected to one of the batteries
- D. There is a gap between the batteries

29. Study the classification carefully and choose the correct answer from the table.



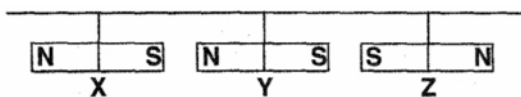
<b>A.</b>	Refrigerator
X	
Y	Clock
Z	Mirowave

<b>B.</b>	Music system
X	
Y	Washing Machine
Z	Heater

<b>C.</b>	Walkman
X	
Y	Table lamp
Z	Electric kettle

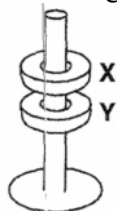
<b>D.</b>	Air-conditioner
X	
Y	Heater
Z	Hair drier

30. What will happen when three bar magnets are hung in the manner as shown below?



- A. Nothing will happen
- B. Magnet Y will turn round and round
- C. Magnet Y will move towards Magnet Z
- D. Magnet Y will move towards Magnet X

31. The figure shows a ring magnet, X, 'floating' above another ring magnet, Y. This is because \_\_\_\_\_



- A. Magnet X is lighter than magnet
- B. Magnet Y is more powerful than magnet X
- C. The like poles of both magnets are facing each other and they repel each other
- D. The unlike poles of both magnets are facing each other and they attract each other

32. In which of the following a permanent magnet is not used?

- A. In magnetic door catches
- B. In electric bells
- C. In compasses
- D. None of these

33. Which of the following are true about acid rain?

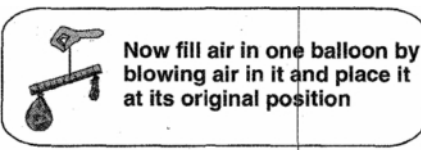
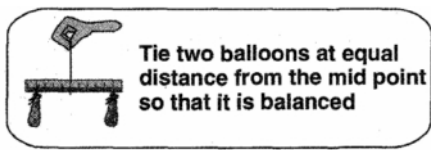
- (i) Acid rain is very harmful to the environment
- (ii) Acid rain can harm aquatic organisms
- (iii) Acid rain helps fisherman to catch more fish
- (iv) Acid rain causes damage to building

- A. (i) & (ii)
- B. (i) & (iii)
- C. (i), (iii) & (iv)
- D. (i), (ii) & (iv)

34. Hardness of water is due to the presence of

- A. Chlorides and sulphates of calcium and potassium
- B. Bicarbonates, chlorides and sulphates of calcium and magnesium
- C. Bicarbonates and chlorides of potassium and magnesium
- D. Bicarbonates, chlorides and sulphates of calcium, potassium and magnesium

35. The given experiment shows



- A. Air contains dust particles
- B. Air occupies space
- C. Air has mass
- D. Air is colourless

36. A triangle can have

- A. Two right angles
- B. Two obtuse angles
- C. Two acute angles
- D. None of these

37. Study the four numbers in each set. Write them in the blanks from the given alternatives to get the final number.





$$\underline{\quad} \times \underline{\quad} + \underline{\quad} = 600$$

- A. (34, 17, 22)
- B. (22, 14, 17)
- C. (14, 34, 22)
- D. (34, 14, 17)

  $\times$   = 3216

  $\times$   = 2304

38. Find the value of  + 

- A. 134
- B. 48
- C. 69
- D. 84

39. Which of the following numbers is a perfect number?

- A. 16
- B. 8
- C. 24
- D. 28

40. Priya is standing at the point marked X in the figure below. She is facing at the food centre





What will she face if she turns  $180^\circ$  anticlockwise then  $135^\circ$  clockwise?

- A. Cinema
- B. Shopping centre
- C. Market
- D. Playground

If  $\square + \square + \square + \square + \square = 175$  and  $\square + \star = 5$ ,

41. find the value of  $\star + \star + \square$

- A. 7
- B. 14
- C. 35
- D. 49

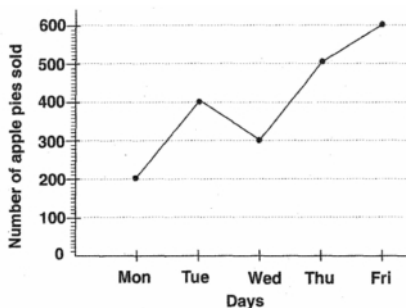
42. Find the mode for this set of numbers. (2, 3, 5, 4, 6, 4, 1, 4, 2)

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

43. Which of these numbers is evenly divisible by 3?

- A. 1,587,039
- B. 1,687,093
- C. 2,578,031
- D. 2,687,096

44. The line graph below shows the number of apple pies Vishal sold over a period of five days. Study it carefully and answer the following question.



If each apple pie cost Rs. 3, how much money did Vishal earn during the five days?

- A. Rs. 390

- B. Rs. 6000
- C. Rs. 3840
- D. Rs. 6610

45. What is the least common multiple (LCM) of 8 and 10?

- A. 80
- B. 24
- C. 16
- D. 40

46. The value of  $(-10) + 92 + 84 + (-15)$  is

- A. 150
- B. 152
- C. 161
- D. 151

47. Ganga Ram School's students are going on a field trip. Group 1 will have 23 passengers on the bus, while Group 2 will have 19 passengers on the bus, and Group 3 will have 21 passengers on the bus. How many passengers will be on the bus from Ganga Ram School?

- A. 63
- B. 72
- C. 89
- D. 135

48. Ramu borrowed Rs. 7,300 from a bank on 8th April, 2002 and settled the account on 3rd March 2003. What amount did he pay if the rate of interest is 16% per annum?

- A. Rs. 8532
- B. Rs. 8352.80
- C. Rs. 8238
- D. Rs. 8235,80

49. What must be subtracted from  $x^3 - 2x^2 + x - 6$  to get  $-x^3 + x^2 - 2x + 7$ ?

- A.  $2x^3 - 3x^2 + 3x - 13$
- B.  $3x^3 - 3x^2 + 3x - 13$
- C.  $-x^2 - x + 1$
- D.  $x^2 + x - 1$

50. Use the given picture to answer the question. Which number sentence tells how much milk is in all the glasses?



A.  $\frac{1}{2} + \frac{1}{2} + \frac{1}{2} = \square$

B.  $\frac{1}{2} \times 6 = \square$

C.  $\frac{1}{2} + 3 = \square$

D.  $3 \times 2 = \square$

Yagna Innovation