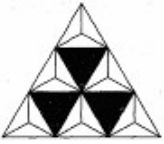


1. Anushka drew the following figure on a piece of paper.
What fraction of the figure is unshaded?



- A. $\frac{3}{9}$
- B. $\frac{3}{10}$
- C. $\frac{3}{5}$
- D. $\frac{2}{3}$

2. 56 has _____ factors.

- A. 4
- B. 6
- C. 7
- D. 8

3. What is $\frac{3}{5}$ of $\frac{5}{8}$?

- A. $\frac{3}{5}$
- B. $\frac{7}{11}$
- C. $\frac{5}{12}$
- D. none of these

4. The school bus had seats for 38 children. When the bus reached the school, only 5 Seats were empty.
How many children rode on the bus?

- A. 5
- B. 33
- C. 38
- D. 43

5. There were 12 friends. Each greeted each other by shaking hands.
How many handshakes took place.

- A. 42
- B. 14
- C. 56
- D. 64

6. What is the shape of the shaded figure inside the star?

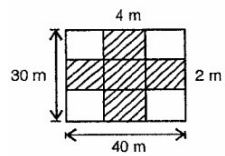


- A. Hexagon
- B. Pentagon
- C. Quadrilateral
- D. Triangle

7. How many sixths are there in $5\frac{1}{6}$

- A. 31
- B. 34
- C. 35
- D. 40

8. The area of the shaded region is



(figure not drawn to scale)

- A. 264 m^2
- B. 192 m^2
- C. 190 m^2
- D. 36 m^2

9. In the question, you are given a figure(X) followed by four figures (A), (B), (C) and (D) such that (X) is embedded in one of them. Trace out the correct alternative.

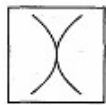
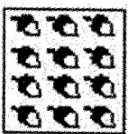


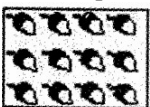
Figure X

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

10. Kevin collected fruits from the garden. First he placed them like this:



Then he placed them like this:



Which of the following shows the two ways Kevin placed his fruits?

- A. $3 \times 4 = 4 \times 3$
- B. 3×4
- C. $3 \times 4 > 4 \times 3$
- D. $3 \times 4 \geq 4 \times 3$

11. Which is a pair of equivalent fractions?

- A. $\frac{1}{2}, \frac{3}{6}$
- B. $\frac{3}{5}, \frac{3}{6}$
- C. $\frac{1}{5}, \frac{3}{5}$
- D. $\frac{1}{2}, \frac{1}{5}$

12. If  +  = 150,  +  +  = 230 and  +  +  = 220,
then the value of 5  +  = ____?

- A. 170
- B. 320
- C. 490
- D. 470

13. Which value of y makes the number sentence true?

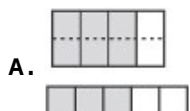
$$Y \div 6 = 93$$

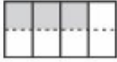
- A. 87
- B. 99
- C. 548
- D. 558

14. If you are 10 years old, you would have lived 52,56,000 seconds. Select the correct match of age to the seconds lived.

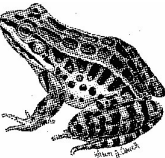
- A. 11 years - 5782400 seconds
- B. 12 years - 6302700 seconds
- C. 13 years - 6832800 seconds
- D. 14 years - 7358500 seconds

15. Which figure shows that $\frac{3}{4}$ is the same as $\frac{6}{8}$?



- B. 
- C. 
- D. 

16. Which of the following is a warm blooded animal?

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

17. Which of the following shows the correct grouping of animals based on their reproduction?

A. Lays eggs		Giving birth
Whale	Cow	

B. Lays eggs		Giving birth
Fish	Cat	

C. Lays eggs		Giving birth
Squirrel	Tiger	

D. Lays eggs		Giving birth
Chicken	Owl	

18. Look at Latika's blood report and answer

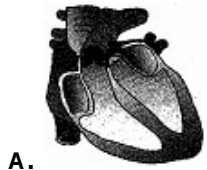
<u>Clinical Pathology Report</u>	
<u>Central Govt. Health Scheme</u>	
20/6/2009	
Name: <u>Latika</u> Age: <u>13</u> Sex: <u>Female</u> Diagnose: <u>Anemia</u>	
Hemoglobin: <u>8.5 gm/dl</u>	<u>Normal Range</u> 12 to 16 gm/dl
<u>Pathologist</u>	

<u>Clinical Pathology Report</u>	
<u>Central Govt. Health Scheme</u>	
15/9/2009	
Name: <u>Latika</u> Age: <u>13</u> Sex: <u>Female</u> Diagnose: <u>Anemia</u>	
Hemoglobin: <u>11 gm/dl</u>	<u>Normal Range</u> 12 to 16 gm/dl
<u>Pathologist</u>	

How much does Latika's haemoglobin go up in 3 months?

- A. 4 gm/dl
- B. 11 gm/dl
- C. 2.5 gm/dl
- D. 10.5 gm/dl

19. Which of the following is the main organ of the circulatory system ?



20. Many plants produce pollens that are

- Tiny and light
- Sticky

Which two of the following are methods of dispersing such pollens?

(i) Wind (ii) Insects (iii) Water

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

21. Which of the following foods will remain fresh for 1-2 days when kept in a dry open place?

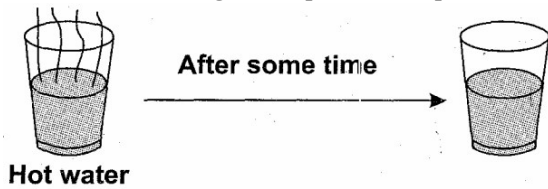
- A. Milk
- B. Onion, garlic
- C. Cooked rice
- D. Spinach

22. Animals return water to the environment by _____.

(i) Perspiring (ii) Drinking (iii) Urinating (iv) Breathing

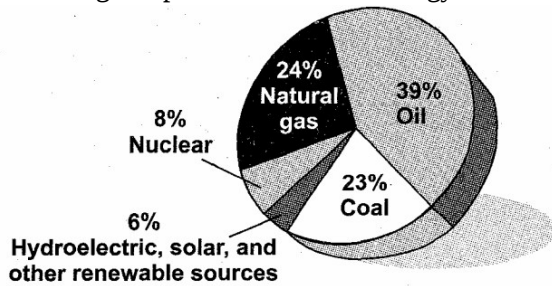
- A. (i) & (iii)
- B. (i) and (ii)
- C. (ii) & (iv)
- D. (ii) & (iii)

23. What does the given experiment depict?



- A. Water will gain heat from the surrounding
- B. Water will lose heat to the surrounding
- C. The temperature of water will decrease to room temperature after some time
- D. Both (B) & (C)

24. The given pie chart shows the energy sources of a country. Refer the graph to answer



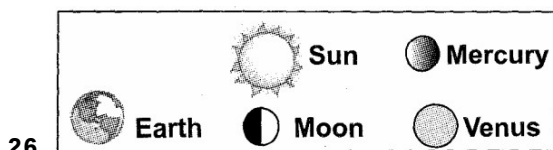
Which sources provide the most similar amounts of energy?

- A. Oil & coal
- B. Coal & gas
- C. Gas & nuclear
- D. Coal & nuclear

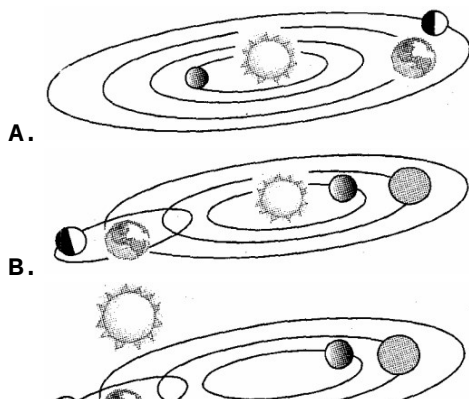
25. Which of the things listed below are non-biodegradable?

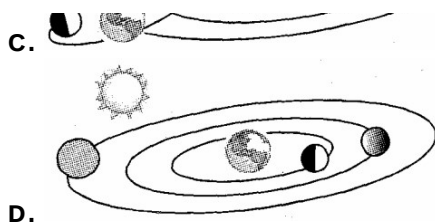
(i) Log (ii) Plastic sandals (iii) Gold necklace (iv) Roasted chicken (v) Credit card (vi) Banana

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

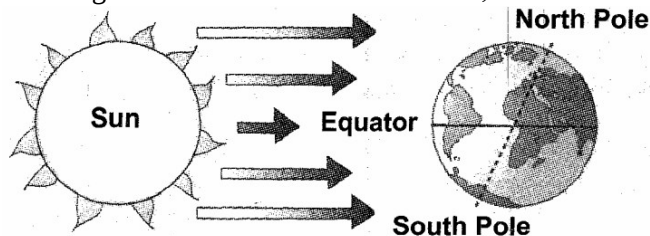


26. Which of the following figures shows the correct position of the above mentioned bodies in the solar system ?





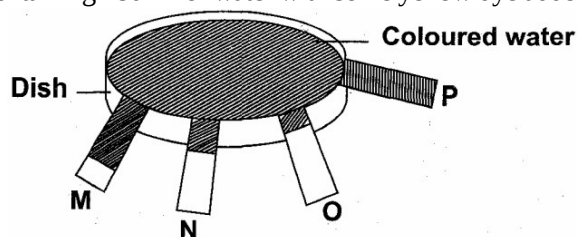
27. Imagine that the earth is tilted on its axis, as shown in the figure.



The tilt of Earth around its axis causes

- A. Seasons
- B. Frozen continent at North pole
- C. Day and Night
- D. None of these

28. Ranjith carried out an experiment as shown below. He placed an equal length of four different materials M, N, O and P into a shallow dish containing 180 ml of water with some yellow dye added into it.



The shaded portion shows the amount of water absorbed by the materials.
Which one of the following conclusions about the materials is correct ?

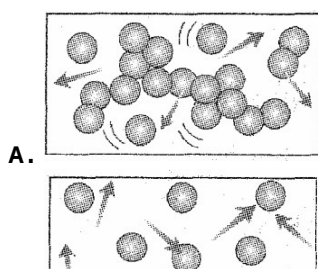
A. Most absorbent	Least absorbent
P	O

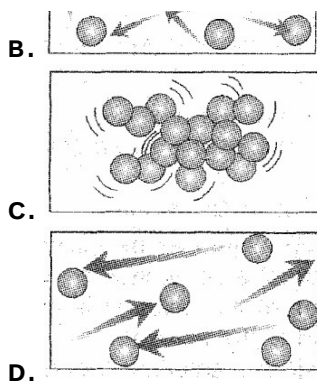
B. Most absorbent	Least absorbent
O	N

C. Most absorbent	Least absorbent
M	N

D. Most absorbent	Least absorbent
O	P

29. The given figures show particles of the same matter. In which picture is the matter hottest?





30. The table below shows some properties of four different substances from the kitchen. They are mixed together in a bowl.

Substance	Colour	Dissolves in water	Passes through fine sieve
W	Green	No	No
X	White	No	No
Y	White	Yes	No
Z	White	Yes	Yes

Which of the following is the best way to separate the substances ?

- A. Pour water into the bowl and remove W and X
- B. Pick out the green substance and pour water into the remaining mixture
- C. Pick out the green substance to get W, pour water into the bowl to get X, and heat the remaining solution to get Y
- D. Pick out the green substance, put the remaining mixture into a sieve to get Z, pour water over the remaining substances in the bowl to filter X, and heat the remaining solution to get Y.

31. Which of the following diseases is inherited ?

- A. Polio
- B. Leprosy
- C. Tuberculosis
- D. Haemophilia

32. Which of the following is/are source(s) of heat?
(i) Sun (ii) Wind (iii) Shadow (iv) Electricity

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

33. The process an insect undergoes when changing from larva to adult is known as _____

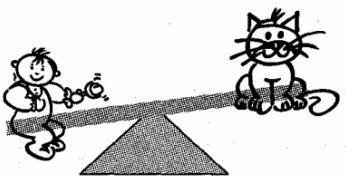
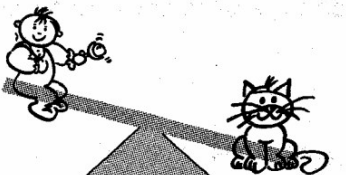
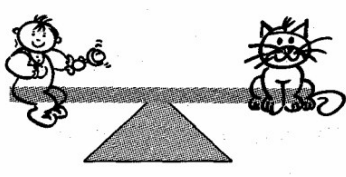
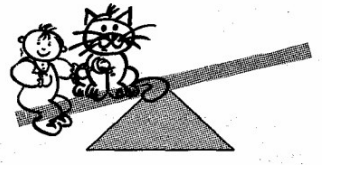
- A. Photosynthesis
- B. Respiration
- C. Reproduction
- D. Metamorphosis

34. Earthworm breathes through _____

- A. Lungs
- B. Gills
- C. Moist skin

D. Nose

35. Which of these shows that the doll is lighter than the cat?

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

36. A student wants to put some plants in a window-box. The window selected for the plants is always shaded by a large tree outside the window. Which characteristic of the plants would most likely affect the plants' growth in this location ?

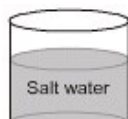


- A. Leaf shape
B. Light requirement
C. Plant price
D. Flower colour

37. Which of the following is a property of CO_2 gas?

- A. It feels like a rock
B. It smells like a lemon
C. It is colourless
D. It is hard

38. The diagram given here shows a mixture. Which of the following pieces of equipment should be used to separate this mixture ?



- A. Magnet
- B. Balance
- C. Funnel
- D. Hot plate

39. Which of the following is food energy for the decomposers in the compost pile?

- A. Heat
- B. Leaves
- C. Water
- D. Both (A) and (B)

40. A meteorologist records the amount of sunshine, rain, snow and other meteorological events of a region over a long period of time. Which of the following is he most likely observing?

- A. Atmospheric pressure
- B. Climate
- C. Precipitation
- D. Weather

41. Breaking down of rocks into soil particles by natural process is called

- A. Cultivation
- B. Weathering
- C. Silting
- D. Erosion

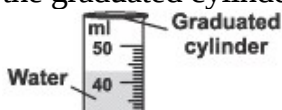
42. A baby seal is rescued and brought to an aquarium. The aquarium workers do not need to teach the baby to swim, but they do have to teach it to hunt. Why ?

- A. Seals do not like to hunt
- B. Seals learn to hunt from their mothers
- C. Seals are naturally lazy
- D. The aquarium workers need something to do

43. How long does it take for the Earth to rotate on its axis seven times?

- A. One day
- B. One week
- C. One month
- D. One year

44. The given diagram shows four identical marbles and a graduated cylinder containing 43 ml of water. A student puts two marbles in the cylinder and the water level rises from 43 ml to 45 ml. The student then puts the other two marbles in the cylinder. What will be the level of water when all the four marbles are in the graduated cylinder?





- A. 43 ml
- B. 45 ml
- C. 47 ml
- D. 49 ml

45. Meenu grew four plants in an experiment to study about plant growth. The table shows the results of Meenu's experiment.

Plant No.	Amount of water each day (ml)	Amount of sunlight each day (hours)	Amount of fertilizer each day (ml)	Height at beginning of experiment (cm)	Height at end of experiment (cm)
1	100	8	5	41	45
2	100	12	5	37	48
3	100	16	5	36	57
4	100	20	5	44	61

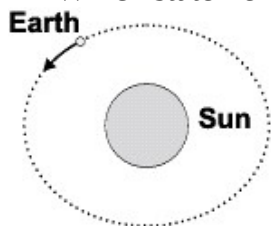
What was the independent variable in this experiment ?

- A. The amount that each plant grew.
- B. The amount of fertilizer each plant received.
- C. The amount of water each plant received.
- D. The amount of sunlight each plant received.

46. Total number of bones in a new born baby is _____.

- A. 206
- B. 175
- C. 250
- D. 300

47. Which statement best describes the given figure ?



- A. The Earth is rotating around the Sun.
- B. The Sun is rotating around the Earth.
- C. The Earth is revolving around the Sun.
- D. The Sun is revolving around the Earth.

48. Match Column-I with Column-II and select the correct option from the codes given below.

Column-I	Column-II
----------	-----------

(a) Brain	(i) Nervous system
(b) Kidney	(ii) Skeletal system
(c) Skin	(iii) Sensory system
(d) Bones	(iv) Excretory system

- A. (a)-(iv), (b)-(i), (c)-(ii), (d)-(iii)
 B. (a)-(iii), (b)-(ii), (c)-(iv), (d)-(i)
 C. (a)-(i), (b)-(iv), (c)-(iii), (d)-(ii)
 D. (a)-(ii), (b)-(i), (c)-(iii), (d)-(iv)

49. Plants growing in deserts, as shown in the figure have spines instead of leaves. Then, how do these plants make food in the absence of leaves?



- A. Spines themselves make food.
 B. Roots make food.
 C. Green, fleshy stem makes food.
 D. Flowers make food.

50. Ritu carried out an experiment with four strings. The strings were of equal length and thickness. She kept adding weights on each string until each string broke. She then tabulated her results in a table as shown here.

Study the table carefully and answer the question.

Strings	Weight
W	230 g
X	150 g
Y	110 g
Z	290 g

If Ritu wanted to use a string to tie a load of 130 g, which of the following string(s) should she use?

- A. Y only
 B. X only
 C. W and Z
 D. W, X and Z