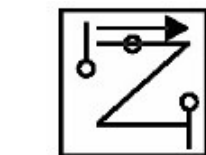
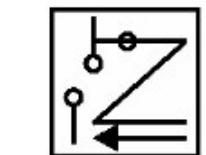
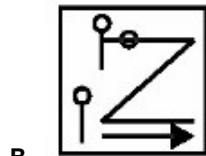
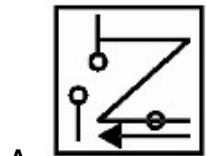


1. The correct mirror-image of the fig.(X), if the mirror is placed vertically left is

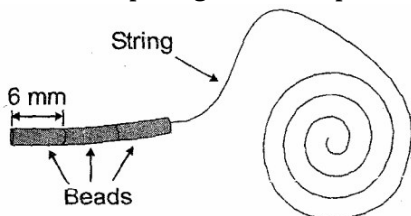


Fig. (X)



Right Answer:: C

2. Nadia is putting beads on a piece of string, as shown below. Each bead is 6 mm long



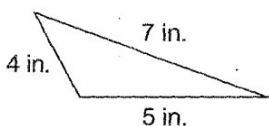
What is the greatest number of beads ?

Nadia can put on a 60 cm string? [1 cm = 10 mm]

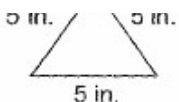
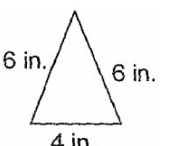
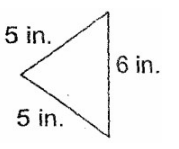
- A. 10
- B. 36
- C. 100
- D. 3600

Right Answer:: C

3. Which of the following is a model of a scaene triangle?



A.

- B. 
- C. 
- D. 

Right Answer:: A

4. Mary began a pattern with the number 3. She obtained all of the other terms in the pattern by multiplying the previous term 2 by and 3 alternately as shown below.

3, 6, 18, 36, 108, 216,...

What is the next term in Mary's pattern?

- A. 324
B. 432
C. 540
D. 648

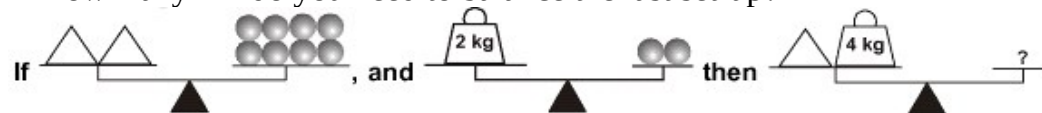
Right Answer:: D

5.
$$\frac{0.081 \times 5.7}{1.71} = ?$$

- A. 0.27
B. 2.7
C. 27
D. 270

Right Answer:: A

6. How many  do you need to balance the last set-up?



- A. 8
B. 10
C. 12
D. 14

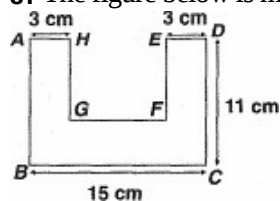
Right Answer:: A

7. If '+' means '×', '-' means '÷'; '×' means '-' and '÷' means '+', then the value of following expression $6 + 5 \div 5 - 3 \times 6$ is

- A. $25\frac{2}{3}$
- B. $17\frac{2}{3}$
- C. $14\frac{1}{3}$
- D. $15\frac{2}{3}$

Right Answer:: A

8. The figure below is made up of three rectangles. Find the length of FG



- A. 6cm
- B. 8cm
- C. 12cm
- D. 9cm

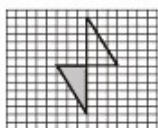
Right Answer:: D

9. A farmer has 11 cows. He purchased 5 more cows and wished to give $\frac{1}{2}$ of the total cows to his eldest son, $\frac{1}{4}$ to the middle son, and the remaining to the youngest son. The number of cows each son (eldest to youngest) will get respectively is

- A. 8,8,4
- B. 4,4,8
- C. 4,8,4
- D. 8,4,4

Right Answer:: D

10. Which transformation of the shaded figure is represented in the diagram ?

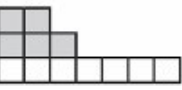


- A. Reflection
- B. Translation
- C. Rotation
- D. None of these

Right Answer:: C

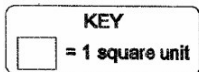
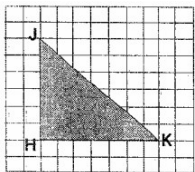
11. Which model represents a ratio of 2 : 1 of shaded to unshaded parts ?



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

Right Answer:: C

12. What is the area of the triangle HJK in square units?



- A. 13 square units
- B. 21 square units
- C. 36 square units
- D. 42 square units

Right Answer:: B

13. Mrs. Neha wrote the following problem on the board and asked her students to solve it.

Every Tuesday (t), Kim practices the piano for 30 minutes.

Every Wednesday (w), she practices twice as long as on Tuesdays.

How long does Kim practice on Wednesdays?

Which equation will help to determine how long Kim practices on Wednesdays?

- A. $w = 2 \times t$
- B. $w = t + 2$
- C. $w + t = 30$
- D. $w - t = 60$

Right Answer:: A

14. Each jar shown below contains an equal number of coins.



The total number of coins in 6 of the 8 jars is 54. How many coins are there in all 8 jars?

- A. 24
- B. 61

- C. 72
- D. 324

Right Answer:: C

15. Beena made a 4 cm by 6 cm by 6 cm cuboid using 2 cm cubes. She removed some cubes to make a solid shown here. How many cubes did she remove?



- A. 17
- B. 12
- C. 11
- D. 13

Right Answer:: C

16. 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

Right Answer:: A

17. Cotton grows best in

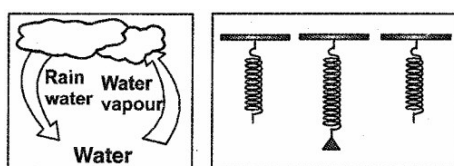
- A. Black soil and warm climate
- B. Black soil and cool climate
- C. Red soil and warm climate
- D. Red soil and cool climate

Right Answer:: A

18. 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

Right Answer:: B



19. Which of the following processes correctly describe the changes taking place in the above figures?

- A. Physical and chemical

- B. Physical and reversible
- C. Chemical and reversible
- D. Physical and irreversible

Right Answer:: B

20. 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)

Right Answer:: D

21. The figures show some animals in two columns X and Y. Which of the following headings is the most suitable for the two groups?

X	Y
	
	
	

A. X	Y
Males	Females

B. X	Y
Colourful	Colourless

C. X	Y
Adult	Young

D. X	Y
No camouflage	Camouflaged.

Right Answer:: A

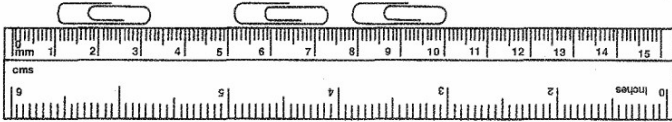
22. The given figure shows



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

Right Answer:: C

23. The average length of the three paper clips is



- A. 1.5 cm
- B. 2.2 cm
- C. 2.5 cm
- D. 3.0 cm

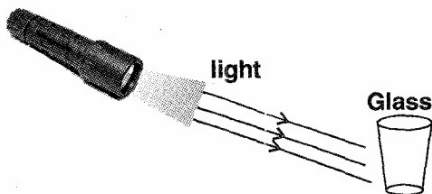
Right Answer:: B

24. Which of the following statements below should be used while using the symbol for a unit of a physical quantity?

- A. The symbol named after scientist should have capital letter
- B. They take plural forms
- C. They can be written in full
- D. They should be written only in the agreed symbols

Right Answer:: A

25. There is no dark shadow formed by the glass when light is shone on it. This is because



- A. It is not night time yet
- B. The light is not strong enough
- C. The glass is a transparent object
- D. The glass is an opaque object

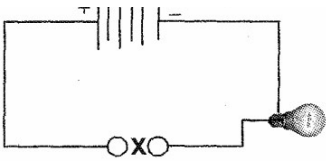
Right Answer:: C

26. Select the correct statements

- A. Black thick paper is translucent
- B. The partial shadow is called umbra
- C. The shadow of a coloured object is also coloured
- D. Light travels in a straight line

Right Answer:: D

27. Study the circuit carefully and answer



What does the above circuit diagram shows?

- A. A closed circuit
- B. A circuit tester
- C. A circuit with key opened
- D. A circuit with key closed

Right Answer:: C

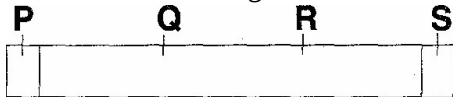
28. Ben's torch does not light up. This is because



- 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

Right Answer:: A

29. Vikram is going to dip a bar magnet into a container of iron filings. Which part of the bar magnet will he observe attract the most amount of the iron filings?



- A. P&Q
- B. P&S
- C. R&S
- D. P,Q&R

Right Answer:: B

30. Magnets lose their properties significantly if

- A. Left in the open
- B. Touched with iron
- C. Dropped from a height
- D. None of these

Right Answer:: B

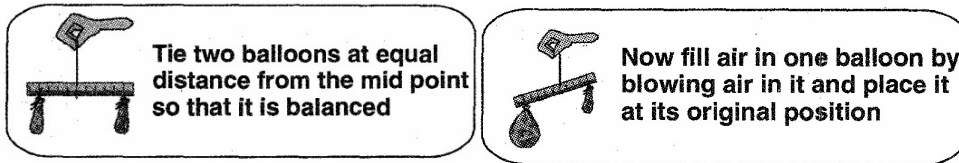
31. Hardness of water is due to the presence of

- 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

Right Answer:: B

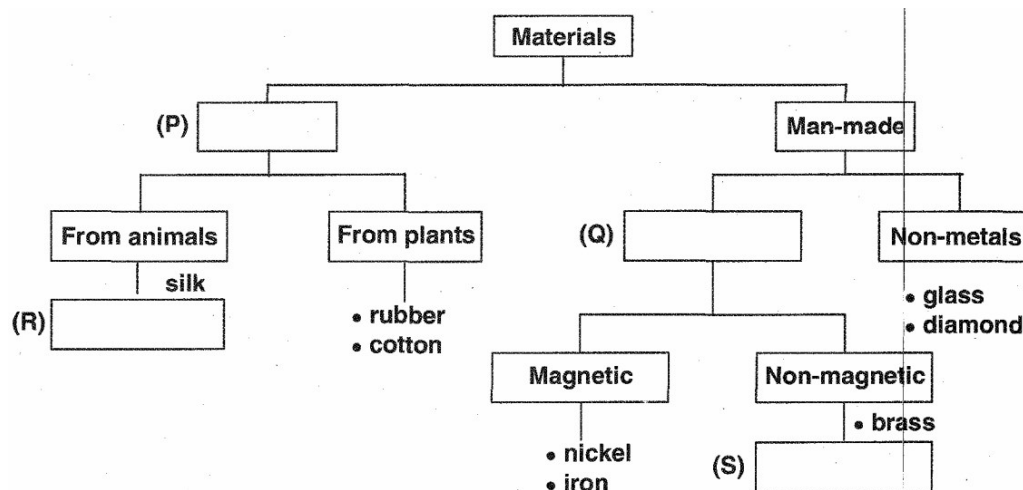
32. The given experiment shows



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

Right Answer:: C

33. Study the classification table and fill in the boxes from the choices given



A.	P	Metals
Q	Wool	
R	Copper	
S	Once alive	

B.	P	Wool
Q	Once alive	
R	Copper	
S	Metals	

C.	P	Once alive
Q	Metals	
R	Wool	
S	Copper	

D.	P	Once alive
Q	Copper	
R	Wool	

Right Answer:: C

34. Match the column I (name of the process) with column II (procedures involved)

Column I	Column II
(a) Retting	(i) The process of removing cotton seeds from cotton
(b) Weaving	(ii) Arranging two sets of yarns together
(c) Ginning	(iii) Separation of jute fibres
(d) Knitting	(iv) A single yarn used to make a piece of fabric

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

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

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

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

Right Answer:: A

35. A covered glass jar containing a piece of wet cotton is placed in sunlight for an hour. You will notice tiny droplets of water sticking to the upper inner surface of glass jar. This is due to

A. Evaporation

B. Condensation

C. Both (A) and (B)

D. Transpiration

Right Answer:: C

36. Wind mill is used _____

A. To help the movement of sailing yachts

B. To generate electricity

C. To help gliders fly

D. To provide wind at tourist places

Right Answer:: B

37. Shadows formed due to sunlight are shortest _____

A. In morning

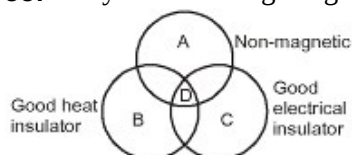
B. At noon

C. In evening

D. At night

Right Answer:: B

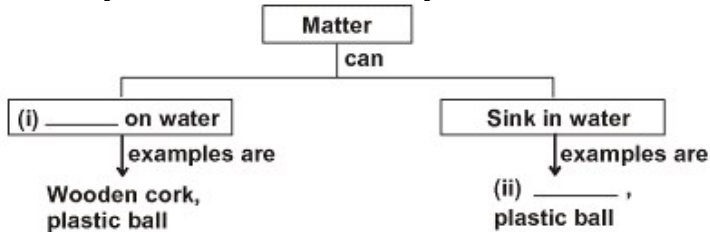
38. Study the Venn diagram given here. Which group does glass belong to?



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

Right Answer:: D

39. Study the flow chart carefully.



A. (i)	(ii)
Swim	Wax

B. (i)	(ii)
Float	Coin

C. (i)	(ii)
Float	Oil

D. (i)	(ii)
Float	Kerosene

Right Answer:: B

40. Which of the following are incorrectly matched ?

(i) Shirt: Cotton (ii) Bag : Leather (iii) Plate : Mirror (iv) Book: Plastic

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

Right Answer:: C

41. Which of the following options is correct regarding the above two statements ?

Statement I = Windshields of cars are made of glass.

Statement II = Those substances or materials through which things can be seen, are called translucent.

- A. Both statements I & II are true, statement II is correct explanation for statement I.
- B. Both statements I & II are true, statement II is not a correct explanation for statement I
- C. Statement I is true, statement II is false.
- D. Statement I is false, statement II is true

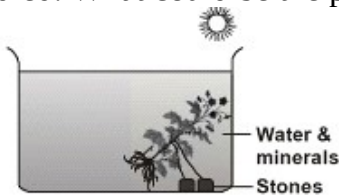
Right Answer:: C

42. The passengers sitting in a flying aeroplane are in _____ with respect to clouds, but are in _____ with respect to the interior of the aeroplane.

- A. Rest, motion
- B. Rest, rest
- C. Motion, rest
- D. Motion, motion

Right Answer:: C

43. Garima took a plant found on the land and carefully put it inside a jar of water as shown by tying it to stones. She added the minerals required by the plant in the water and kept it in sunlight. After some days the plant died. What could be the probable reason for its death ?



- A. The plant was not able to absorb oxygen for respiration inside water
- B. The plant was not able to absorb carbon dioxide for photosynthesis inside water
- C. The plant did not get sunlight to perform photosynthesis inside water
- D. Both (A) & (B)

Right Answer:: D

44. Match the organisms in column I with their food habits in column II and select the correct option from the codes given below:

	Column I		Column II
(a)	Snail	(i)	Human or animal blood
(b)	Peacock	(ii)	Plant nectar
(c)	Bees	(iii)	Grains, insects & snakes
(d)	Mosquito	(iv)	Decaying plant parts

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

Right Answer:: C

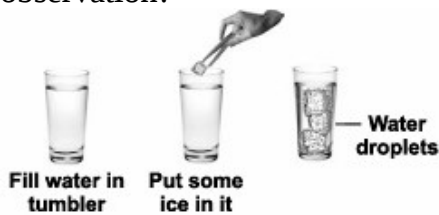
45. Match Column I with Column II and select the correct option from the codes given below.

Column I	Column II
(a) Battery	(i) Complete path for the flow of electricity.
(b) Conductor	(ii) A collection of cells.
(c) Circuits	(iii) Generate electricity.
(d) Insulator	(iv) Allows electricity to flow through it.

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

Right Answer:: A

46. Arjun conducted an experiment shown in figure. What conclusion could you draw from the observation?



- A. Air contains dust particles.
- B. Air contains oxygen.
- C. Air contains water vapours.
- D. Air contains carbon dioxide.

Right Answer:: C

47. The earthworm has no bones but there is a series of muscular rings all along its body, which it uses for locomotion. Given below are the various steps of its locomotion. Arrange them in sequence and select the correct option.

- (i) It shortens the body by muscle contraction and pulls its rear-end forward.
- (ii) It fixes the front end and releases the rear end.
- (iii) It fixes its rear portion to the ground with the help of tiny bristles.
- (iv) It extends the front part of its body by muscle expansion.

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

Right Answer:: B

48. In the game of football, a goalkeeper stops a ball. It is because.

- A. Friction between the ball and hand of goalkeeper
- B. Decrease in speed of ball due to air resistance
- C. Application of force by goalkeeper
- D. All of these

Right Answer:: C

49. It is actually a combination of evaporation and condensation. The process first involves heating in order

to vaporize the liquid. The vapours of the liquid on cooling give pure liquid. This process is called _____.

- A. Chromatography
- B. Sublimation
- C. Filtration
- D. Distillation

Right Answer:: D

50. Which one of the following can be attracted by a magnet?



- A. Nickel rod



- B. Copper wire



- C. Aluminium can



- D. Silver ring

Right Answer:: A