

1. \_\_\_\_\_ energy is stored in the fire crackers.

- (a) Potential (b) Kinetic  
(c) Chemical (d) Magnetic

2. Which of the following is not working on electric energy ?

- (a) Mobile phone (b) Thermos flask  
(c) Torch (d) Laptop

3. Which of the following changes is reversible and quick in both directions ?

- (a) Burning crackers (b) Melting wax  
(c) Switching a bulb 'on' and 'off'  
(d) Preparing bangles from glass

4. Which animal is unable to collect sound waves from different directions using Earlobes ?

- (a) Cat (b) Cow (c) Dog (d) Human

5. Which of the following materials are required for making a book ?

- 1) Paper 2) Ink 3) Gum 4) Cellophane tape  
(a) 1, 2, 3 (b) 2, 3, 4 (c) 1, 3, 4 (d) 1, 2, 4

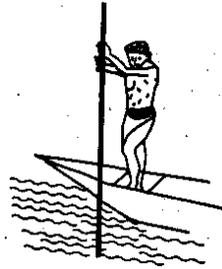
6. 50 ml of each of sea water, river water, well water and rain water are kept in dishes A, B, C, D respectively. After evaporation which dish will contain minimum substance ?

- (a) A (b) B (c) C (d) D

7. 'Bleeding gums' is Sameer's problem. Which fruit the doctor must have suggested to include in his diet ?

- 1) Orange 2) Lemon 3) Carrot 4) Amla  
(a) 1,2,3 (b) 3, 4 (c) 2,3,4 (d) 1,2,4

8. The boatman shown in the figure is using \_\_\_\_\_ force to set the boat afloat ?



- (a) gravitational (b) muscular  
(c) frictional (d) mechanical

9. Inner volume of a cup is 150 ml. and its outer volume is 175 ml. What is the . capacity of that cup ?

- (a) 225 ml (b) 25 ml (c) 150 ml (d) 175 ml

10. Complete the analogy:

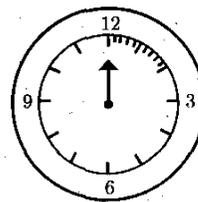
High rainfall : *Ragi* :: Low rainfall : \_\_\_\_\_

- (a) Bajra (b) Wheat  
(c) Varai (sago rice) (d) Rice

11. Which factor is essential for hatching of hen's egg ?

- (a) Pressure (b) Air (c) Warmth (d) Sunlight

12. A clock has lost its minute-hand and second-hand as shown in the figure. What minimum time can be measured with this clock accurately ?



- (a) 1 hour (b) 1 minute  
(c) 5 minutes (d) 12 minutes

13. Find the odd one out.

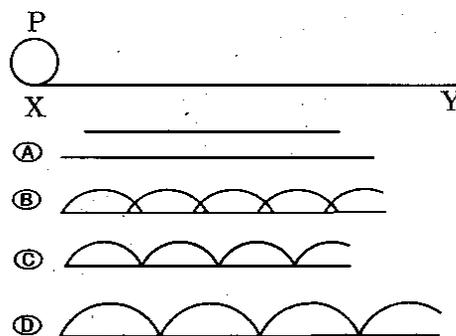
Gynoecium, Thalamus, Node, Calyx

- (a) Gynoecium (b) Thalamus (c) Node (d) Calyx

14. How can we separate to soluble and insoluble substances from their mixture ?

- (a) By winnowing                      (b) By sifting  
(c) By preparing solution and then setting it  
(d) By preparing solution and then filtering it
15. Why humidity in household atmosphere is harmful for health ?  
(a) It increases mental tension  
(b) It leads to lack of appetite  
(c) It provides favourable condition for growth of bacteria  
(d) It causes arthritis
16. Which of the following can not be recycled ?  
(a) Glass                                      (b) Cardboard  
(c) Aluminium                              (d) Banana skin
17. Why have leopard attacks in residential area increased recently ?  
(a) Forest area is reduced  
(b) Forest area is increased  
(c) Large area of forest are declared as sanctuaries  
(d) Leopard likes to come to the residential area
18. Which is the correct statement about formation of ash and coal from wood ?  
(a) complete burning → coal, incomplete burning → ash.  
(b) incomplete burning → coal, complete burning → ash.  
(c) incomplete burning → both coal and ash.  
(d) complete burning → both coal and ash.
19. What is the unit of mass in FPS system ?  
(a) Foot   (b) Pound   (c) Fahrenheit   (d) Kilogram
20. What should be done, when we sense tremor of an earthquake ?  
(a) Move towards the open ground  
(b) Call for help

- (c) Stand near the wall  
(d) Stand at the centre of the room
21. A ring is rolling on a flat surface from X to Y. What will be the path of point 'P' on that ring as observed by an observer who is standing in front of it ?



22. Which raw materials are used for manufacturing of glass?  
(a) Common salt and reddish rock  
(b) Sand and washing soda  
(c) Sand and baking soda  
(d) Coal and washing soda
23. Which of the following animals does not moult ?  
(a) Earth worm                              (b) Snake  
(c) Butterfly                                      (d) Silk worm
24. Why kitchen utensils of copper and brass are coated with tin ?  
(a) To avoid reaction with air  
(b) To avoid reaction with water  
(c) To avoid reaction with sour substances  
(d) To avoid erosion
25. In which plant the seed is outside the fruit?  
(a) Banana   (b) Coconut   (c) Cashew   (d) Fig

26. Water levels of well A and well B are at 10 m and 15 m from top-respectively. If we have to fetch 20 litre water from both the wells, which of the following statement is true ?

Note: Force required to fetch water form well A is denoted by  $F_A$  and force for well B is denoted by  $F_B$

- (a)  $F_A > F_B$  (b)  $F_B > F_A$   
(c)  $F_A = F_B$  (d) Can not predict

27. In a physical change \_\_\_\_\_ of a substance does not change.

- (a) shape (b) state  
(c) chemical properties (d) volume

28. What is the function of oesophagus ?

- (a) To transfer the air from nasal cavity to lung  
(b) To transfer the moist ball of food to stomach  
(c) To prevent the entry of moist ball of food into wind pipe  
(d) To help produce sound

29. Here are some statements which describe the effect of atmosphere around Earth. Find the false statement.

- (a) There is rain on the Earth  
(b) Day and night occur on the Earth  
(c) There is moderate difference between the temperature during the night and at day  
(d) Sky looks blue

30. Which option shows dependence between animals and plants most accurately ?

- (A) Plants  $\xrightarrow{\text{Oxygen}}$  Animals  
(B) Animals  $\xrightarrow{\text{Carbon dioxide}}$  Plants  
(C) Plants  $\xleftrightarrow[\text{Carbon dioxide}]{\text{Oxygen}}$  Animals  
(D) Plants  $\xrightarrow[\text{Carbon dioxide}]{\text{Oxygen}}$  Animals

31. Complete the analogy:

Orange : Nagpur :: Jackfruit : \_\_\_\_\_.

- (a) Nashik (b) Akola (c) Satara (d) Devgad

32. Lubricant is used in the wheels of bullock cart, because -

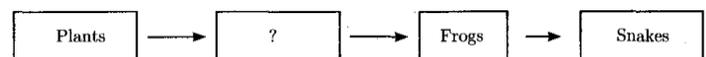
- 1) lubricant reduces the force which opposes the motion.  
2) lubricant increases the force which opposes the motion.  
3) lubricant reduces the speed of the bullock cart.  
4) lubricant increases the speed of the bullock cart.

- (a) 1 and 4 (b) 2 and 4 (c) 1 and 3 (d) 2 and 3

33. Sagar's mother is serving him ORS in his illness. What may be his illness ?

- (a) Cough and cold  
(b) Vomiting and loose motion  
(c) Headache  
(d) Frequent fever

34. Find the missing animal in the food chain.



- (a) Chamelion (b) Mongoose  
(c) House lizard (d) Insect

35. Find the odd one out with reference to water.

- (a) Lemon juice (b) Vinegar  
(c) Milk (d) Kerosene

36. At what age combined vaccine for diphtheria and tetanus is given ?

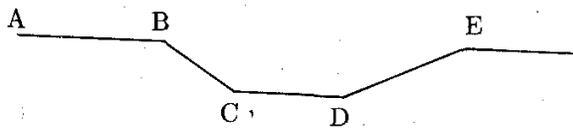
- (a)  $1\frac{1}{2}$  years (b)  $3\frac{1}{2}$  years  
(c) 5 years (d) 10 years

37. Why is the temperature at its minimum at the dawn ?

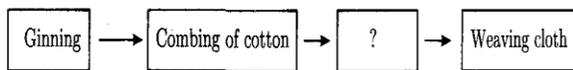
- (a) No sun in the sky

- (b) Distance between Sun and the earth increases at the dawn  
 (c) Sunrise is expected very soon  
 (d) The Sun is out of the sky for a long period

38. A ball is going from 'A' to 'E' along the path shown in the figure. The surface is frictionless. At what stage the speed of the ball will increase ?



- (a) AB      (b) BC      (c) CD      (d) DE
39. Different stages of production of cotton clothes are given below. Fill the vacant box with proper option.



- (a) Deciding quality of yarn  
 (b) Spinning of yarn  
 (c) Washing of yarn  
 (d) Colouring of yarn
40. Which of the following nutrients can be called 'body building food' ?

- (a) Carbohydrates      (b) Proteins  
 (c) Fats      (d) Vitamins

41. Complete the analogy.

Mixer : Electricity : Horse : \_\_\_\_\_

- (a) Sleep   (b) Exercise   (c) Food   (d) Movement

42. If gravitational force acting on an object of 1 Kg is 10 N. What will be the weight of an object of 32 kg ?

- (a) 32 N   (b) 3.2 N   (c) 320 N   (d) 320 Kg

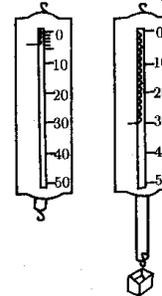
43. \_\_\_\_\_ is not obtained from sea.

- (a) Salt   (b) Alum   (c) Iodine   (d) Petroleum

44. Which is not a function of roots ?

- (a) To prepare the carbohydrates  
 (b) To store the food   (c) To support the plant  
 (d) To prevent soil erosion

45. Adjacent figures show two conditions of the same spring balance. Observe it and find the mass of the hung object.



- (a) 30 g   (b) 34 g   (c) 31 g   (d) 26 g

46. Arrange the following statements in proper order.

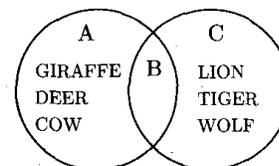
- The food gets converted into semisolid mixture.
- Digested food is absorbed in the blood.
- A moist ball of food is formed.
- Indigested food substances are excreted or passed out of the body.

- (a) 1, 2, 3, 4      (b) 1, 3, 4, 2  
 (c) 3, 1, 2, 4      (d) 3, 1, 4, 2

47. In the sea, high tide comes \_\_\_\_\_ a day

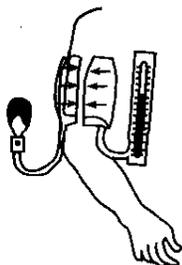
- (a) once      (b) twice  
 (c) three times      (d) four times

48. Which of the following animals will fit in the 'B' part of the Venn diagram.



- (a) Snake   (b) Crow   (c) Elephant   (d) Vulture

49. Medical instrument shown in the figure measures \_\_\_\_\_ of a human body.



- (a) pulse rate (b) blood pressure  
(c) stress on the muscles (d) temperature

50. Why does a glass rod crack, when it is heated at one point ?

- (a) Glass is a good conductor of heat.  
(b) Glass is a bad conductor of heat.  
(c) Glass is transparent.  
(d) Glass has high melting point.

51. The Earth is divided into crust, mantle, liquid core and solid core. Which of this part has minimum volume ?

- (a) Crust (b) Mantle  
(c) Liquid core (d) Solid core

52. Find the odd one out.

- (a) glass (b) plastic (c) silk (d) cement

53. Which type of motion a thong has which rotates around the wheels in a sewing machine?

- (a) Linear (b) Circular (c) Oscillatory (d) Periodic

54. Mosquitoes which spread \_\_\_\_\_, bred in clean water.

- (a) dengue (b) typhoid (c) cholera (d) influenza

55. Electrical wire should not be made of \_\_\_\_\_.

- (a) Silver (b) Zinc (c) Copper (d) Aluminium

56. Which statement is true for gardener's scissors.

1) Lever of first order

2) Lever of second order

3) Force arm is longer than load arm

4) Force arm is shorter than load arm

- (a) 1,3 (b) 2,3 (c) 1,4 (d) 2,4

57. Where do we find the maximum difference in duration of daytime in summer and winter ?

- (a) Equator (b) Tropic of cancer  
(c) North pole (d) Tropic of Capricorn

58. In which area of Maharashtra more number of malnourished children are found ?

- (a) Melghat (b) Amboli ghat  
(c) Khambataki ghat (d) Malshej ghat

59. In rainy season brown layer appears on iron objects. Which part of air reacts with iron to form this layer ?

- (a) Water vapour (b) Oxygen  
(c) Nitrogen (d) Carbon dioxide

60. What precaution people should take while going out of the house, in areas where outside temperature is 47 °C?

- (a) Use white coloured cotton clothes  
(b) Use plastic chappal or shoe  
(c) Use black or dark coloured clothes  
(d) Use woolen clothes

61. Beaker A and B contain same amount of water. A stone is dropped in breaker A and a cube of 3 cm is dropped in beaker B. Level of water in both the beakers is same after dropping the substances. What will be the volume of the stone ?

- (a) 3 cm<sup>3</sup> (b) 9 cm<sup>3</sup> (c) 18 cm<sup>3</sup> (d) 27 cm<sup>3</sup>

62. Seeds of which of the following plants are spread by wind ?

- (a) Castor (b) Mango (c) Drumstick (d) Coconut

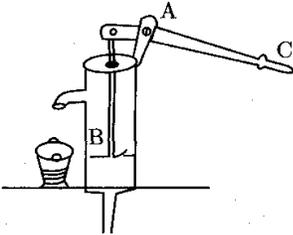
63. Why is it difficult to walk on the smooth tiled floor, if water is spilled on it ?

- (a) Muscular force decreases
- (b) Frictional force increases
- (c) Frictional force decreases
- (d) Gravitational force increases

64. Body temperature of a healthy human is 37 °C. What will be this temperature in Fahrenheit ?

- (a) 90.4 °F (b) 94 °F (c) 98.4 °F (d) 101 °F

65. Figure shows different parts of a borewell. What A, B and C represent in the given figure ?



- (a) A - Fulcrum, B - Force, C - Load
- (b) A - Force, B - Load, C - Fulcrum
- (c) A - Fulcrum, B - Load, C - Force
- (d) A - Load, B - Fulcrum, C - Force

66. Select the incidence that can take place without force.

- (a) Change in the direction of motion
- (b) Falling of leaves from a tree
- (c) Burning of candle
- (d) Collision between two objects

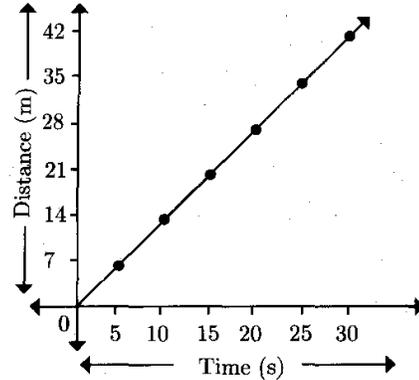
67. Find the odd one out.

- (a) Mint (b) Cactus (c) Fern (d) Aloe vera

68. Growth of Fungus on bread is a \_\_\_\_\_ type of change.

- (a) quick and reversible (b) quick and irreversible
- (c) slow and reversible (d) slow and irreversible.

69. Graph shows distance travelled by a car in a particular time. From this information which statement about the speed of the car is true.



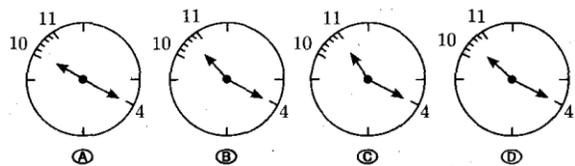
- (a) Car is moving with uniform speed
- (b) Speed of the car is increasing
- (c) Speed of the car is decreasing
- (d) Car is moving with variable speed.

70. Complete the analogy:

Creeper : Water melon :: Shrub : \_\_\_\_\_

- (a) Brinjal (b) Drumstick
- (c) Pumpkin (d) Bitter gourd

71. Which one of the following figures shows proper position of an hour hand ?



72. In which part of the digestive system, food gets digested completely ?

- (a) Stomach (b) Mouth
- (c) Large intestine (d) Small intestine

73. Complete the analogy:

Animal : Nose :: Green plant : \_\_\_\_\_

- (a) Stem (b) Bud (c) Flower (d) Stomata

74. Why aquatic animals of the sea die where oil spills ?

- 1) Smell of the oil is harmful for aquatic animals.
- 2) Oil layer obstructs the contact with oxygen in the air.

3) Layer of the oil prevents Oxygen from air to get dissolved in the sea water.

- (a) 1          (b) 2          (c) 3          (d) 1,2

75. Which is the main controlling centre of a human body ?

- (a) Heart   (b) Spinal cord   (c) Lung   (d) Brain

76. Leaves of which of the following plants do not have petiole ?

- (a) Papaya   (b) Wheat   (c) Peas   (d) Peepal

77. While making a nature drawing an artist measures the height of the objects using pencil. The height of a tree is 2 cm, while height of a hill is 10 cm. If actual height of that tree is 4 m, what will be the actual height of that hill ?

- (a) 5 m      (b) 10m      (c) 20 m      (d) 80m

78. Who am I ?

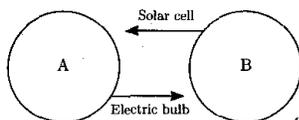
I separate chest cavity from abdominal cavity. I make important contribution in respiration.

- (a) Lungs   (b) Ribs   (c) Diaphragm   (d) Trachea

79. What is the colour of flowers of bougainvillea ?

- (a) Red      (b) White      (c) Yellow      (d) Blue

80. Find A and B using the given figure.



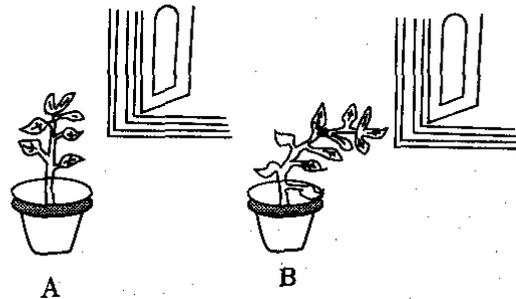
(a) A - Electric energy, B - Light energy

(b) A - Light energy, B - Electric energy

(c) A - Light energy, B - Heat energy

(d) A - Heat energy, B - Light energy

81. Observe the given figures A and B. Find which property / properties of living things the plant is showing ?

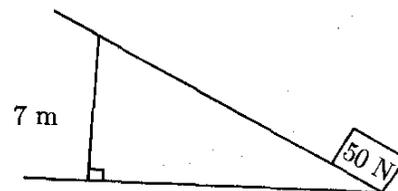


(a) Growth   (b) Responsiveness to stimuli

(c) Growth and responsiveness to stimuli

(d) Growth and respiration

82. An object weighing 50 N is to be lifted through 7 m using an inclined plane. If F represents force to be used and d represents distance travelled by the object, then which one of the following statements is true ?



(a)  $F < 50 \text{ N}$ ,  $d = 7 \text{ m}$       (b)  $F > 50 \text{ N}$ ,  $d > 7 \text{ m}$

(c)  $F < 50 \text{ N}$ ,  $d > 7 \text{ m}$       (d)  $F > 50 \text{ N}$ ,  $d > 7 \text{ m}$

83. \_\_\_\_\_ district is situated in the eastern part of Maharashtra.



95. What type of eclipse can be observed from the moon when there is a solar eclipse on the Earth ?

- (a) Solar eclipse (b) Earth eclipse  
(c) Lunar eclipse (d) All of these

96. \_\_\_\_\_ death anniversary of Pandit Jawaharlal Nehru, pioneer of modern India, was celebrated on 27th May 2014.

- (a) 100<sup>th</sup> (b) 125<sup>th</sup> (c) 50<sup>th</sup> (d) 60<sup>th</sup>

97. What were the special features of the football that was used in recent (2014) world cup tournament ?

- 1) It was made of PVC plastic
- 2) It was orange, blue, green in colour
- 3) It was suitable for all climatic conditions of the Earth.

4) A camera was fitted inside it

- (a) 1, 2, 3 (b) 1, 3, 4  
(c) 2, 3, 4 (d) None of these

98. 28<sup>th</sup> February is observed as science day in India in honour \_\_\_\_\_

- (a) Dr. C. V. Raman  
(b) Dr. Jagadishchandra Bose  
(c) Dr. Jayant Naralika  
(d) Dr. Homi Jahangir Bhabha

99. Laser technique is not used in which of the following ?

- (a) To improve the eyesight  
(b) To take prints form computer  
(c) To take photographs of inner organs of body  
(d) To read the bar code

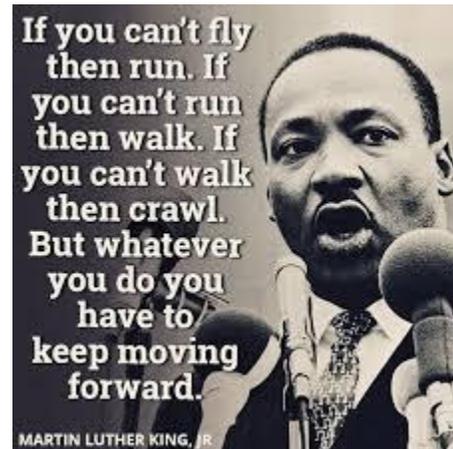
100. Four reasons of landslide are given. Find the incorrect one.

- (a) Earthquake  
(b) No tree plantation on the slope of the hill

(c) Digging trenches across the slope

(d) Heavy rains

\*\*\*\*\*



**I'VE MISSED MORE THAN  
9000 SHOTS IN MY CAREER  
I'VE LOST ALMOST 300 GAMES.  
26 TIMES, I'VE BEEN  
ENTRUSTED TO TAKE  
THE GAME WINNING  
SHOT AND MISSED.  
I'VE FAILED OVER  
AND OVER AND OVER  
AGAIN IN MY LIFE  
AND THAT IS WHY  
**I SUCCEED****

MICHAEL JORDAN

### Test Paper Solution

1. (C) Explanation: When fire crackers are burnt, chemical energy is converted into heat, light and sound energy.
2. (B) Explanation: Construction of thermos flask is such that heat cannot travel in or out of it. Hence, it does not require any external energy source to maintain the temperature of the contents.
3. (C) Explanation: Change A is and irreversible change. B and D are reversible; but not quick.
4. (D) Explanation: All other animals except human can move their earlobes.
5. (A)
6. (D) Explanation: Salts dissolved in water remain in the dish after evaporation of water. Very little salt are left in the dish containing rain water, as it contains only traces of salt,
7. (D) Explanation: Problem of bleeding gums is due to lack of Vitamin C.
8. (B)
9. (C) Explanation: Inner volume of a vessel denotes its capacity.
10. (A)
11. (C)
12. (D) Explanation: The given clock has only hour hand. Hour hand moves through one number in one hour i.e. in 60 minutes. There are five divisions marked in two consecutive numbers. So, the hour hand will move through one division in 12 min. Hence we can measure time accurately up to 12 min. with the given clock.
13. (C) Explanation: All other options except node are parts of the flower.

14. (D)
15. (C) Explanation: Humidity and warmth provide favourable condition for the growth of bacteria. Bacteria may give rise to illness.
16. (D) Explanation: Banana skin is a biodegradable substance. It gets converted into manure after a few days.
17. (A) Explanation: Forest area is shrinking day-by-day. Hence, leopards are coming out in the residential areas in search of food.
18. (B)
19. (B) Explanation: In FPS system F represents Foot (unit of length), P represents Pound (unit of mass) and represents Second (unit of time).
20. (A) Explanation: During to earthquake, there is a possibility of collapsing of walls and roof or ceiling of the house. Therefore it is advised to move towards open ground.
21. (D) 22. (B)
23. (A) Explanation: Earthworms do not moult.
24. (C) Explanation: Sour substances react with brass and copper vessels. Due to these reactions edible substances get spoilt. To avoid such reactions, these utensils are coated with tin.
25. (C)
26. (C) Explanation: Force required to fetch the water depends upon the mass of the water. As mass of water is same in both cases, so force required is also same.
27. (C) 28. (B)
29. (B) Explanation: Day and night on the Earth occur due to rotation of the Earth around its axis.
30. (C) Explanation: Animals give Carbon

dioxide formed during respiration to plants and plants release Oxygen formed during photosynthesis.

31. (D) Explanation: We find jackfruits in coastal area.

32. (A) Explanation: Lubricant reduces friction, and increases the speed.

33. (B)            34. (D)            35. (D)

36. (C)            37. (D)

38. (B) Explanation: When the ball is moving horizontally on a frictionless surface, its speed will increase when it is moving downwards and will decrease when it is moving upwards.

39. (C)            40. (B)            41. (C)

42. (C) Explanation: Gravitational force acting on a body is known as its weight. From the given information, gravitational force acting on the object of 32 kg is 320 N. Hence its weight is 320

43. (B)

44. (A) Explanation : Carbohydrates are produced by the plants in presece of sunlight by the process of photosynthesis. Since roots are underground, answer is A.

45. (D) Explanation: In figure when no weight is hung, the pointer is at 4 g mark. Therefore, mass of the hung object must be 26 g.

46. (C)            47. (B)

48. (B) Explanation : In Venn diagram, A represent herbivorous animals and C represent carnivorous animals. B is the intersection of A and C. So, omnivorous animals will come in part B.

49. (B)

50. (B) Explanation: Glass is a bad conductor of heat. Hence, only the part which receives

heat will expand and glass will crack due to uneven expansion.

51. (A)            52. (C)            53. (D)

54. (A)

55. (B) Explanation: Zinc being a bad conductor of electricity; is not used in electrical wires.

56. (A) Explanation: A gardener's scissor is a lever of first order and its force arm is longer than load arm to reduce force.

57. (C) Explanation : At poles, the Sun shines all 24 hours on some days and on some days, there is no Sun in the sky for 24 hours.

58. (A)

59. (B)

60. (A) Explanation: White coloured clothes reflect sunlight and heat.

61. (D) Explanation: Level of water in the beaker A and B is the same before and after immersion of the two object. These indicates that volume of cube and stone is same.

62. (C) Explanation: Drumstick has winged seeds. These seeds get are spread by wind.

63. (C) Explanation: When water spills on the floor, it works as lubricant. The decreased frictional force makes it difficult to walk on it.

64. (C) Explanation:  $37\text{ }^{\circ}\text{C}$  is equal to  $98.4\text{ }^{\circ}\text{F}$ .  
 $T\text{ in }^{\circ}\text{F} = T\text{ in }^{\circ}\text{C} \times 9/5 + 32$

65. (C)

66. (C) Explanation: Burning of candle is a chemical reaction. It does not require any force.

67. (C) Explanation: Fern is the only non-flowering plant.

68. (D)
69. (A) **Explanation:** Careful observation of the graph shows that the car is moving through a distance of 7 m. in every 5 seconds. Thus it is moving with an uniform speed.
70. (A)
71. (D) **Explanation:** As minute hand is at 4. it shows 20 minutes are passed. In this time hour hand will move nearly two divisions.
72. (D)
73. (D)
74. (C) **Explanation:** Oil obstructs availability of Oxygen to aquatic organisms.
75. (D)
76. (B) **Explanation:** Normally leaves of monocots do not have petiole.
77. (C) **Explanation:** Apparent height of an object is directly proportional to its original height. Hill appears 5 times (10 cm) taller than the tree (2 cm).
78. (C)
79. (B) **Explanation:** In Bougainvillea, the coloured part we see are modified leaves. Flowers are situated inside it and are white in colour.
80. (A)
81. (C) **Explanation:** The plant in figure B shows growth towards sunlight. This indicates growth in response to the stimulus.
82. (D) **Explanation:** When we use inclined plane to lift an object, less force is required.
83. (D)
84. (A) **Explanation:** Pancreas secretes insulin that reduces level of sugar in blood. Due to malfunction of pancreas, insulin is not produced properly which leads to diabetes.
85. (B)
86. (B) **Explanation:** Carbon is a constituent of all animals and plants. Water is a compound of Hydrogen and Oxygen. It does not contain Carbon.
87. (C)
88. (B) **Explanation:** Nitrogen combines with Oxygen only during lightning and compounds of Nitrogen are formed.
89. (B) **Explanation:** Milk is a heterogeneous mixture because you can see various components, the fat floats on top and can be separated easily .from the mixture.
90. (D) **Explanation:** Moon has soil (lithosphere) , but it does not have water (hydrosphere) or air (atmosphere).
91. (A) **Explanation:** We get water vapours from sugar, hence it contains Hydrogen and Oxygen. After prolonged heating it also leaves Carbon as black residue.
92. (D) **Explanation:** An object is initially at 12 cm. and then it is moved towards mirror by 3 cm. So it is at 9 cm from mirror. A virtual image will be 9 cm behind the mirror. Therefore, the distance between the object and the image is 18 cm.
93. (A) 94. (C)
95. (B) **Explanation:** In a solar eclipse, moon is between the Sun and the Earth. At this time if we are on moon, we can see shadow of moon on the Earth. Hence there will be an Earth eclipse.
96. (C) 97. (C) 98. (A) 99. (C) 100. (C)