CLASS : IV   MATHEMATICS

1. Container X holds 5 l 460 ml of water. Container Y holds twice as much water as container X. Find the volume, in l, of water in container Y.

   (A) 10920   (B) 109.2   (C) 1092   (D) 10.92

2. The diagram shows a time line.

Start	End
11: 30 a.m.	4: 30 p.m.
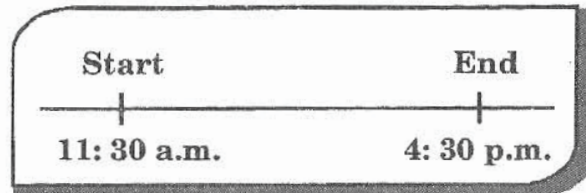
   Find the duration between the two given times.

   (A) 16 hours   (B) 7 hours   (C) 17 hours   (D) 5 hours

3. I am a 3 digit even number. The sum of my digits is 9. My tens digit is twice that of my hundreds digit, who am I?

   (A) 243   (B) 621   (C) 216   (D) 360

4. Which of the following is not true?

   (A) 7 O'clock in the morning is 7: 00 a.m.

   (B) 6: 45 in the evening is 6: 45 p.m.

   (C) Half past nine at night is 9: 30 p.m.

   (D) 12: 00 noon is 12: 00 a.m.

5. Which of the following is the net of the solid shown below?

www.examrace.com
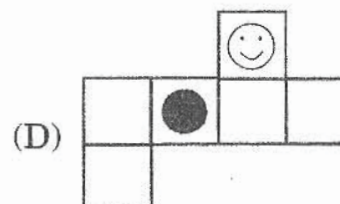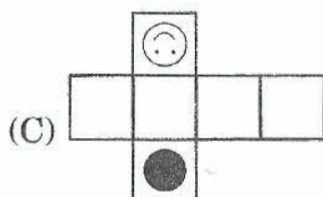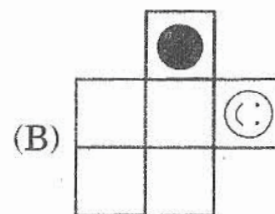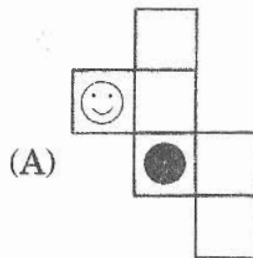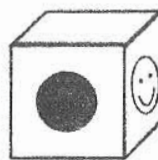
6. Which of the following fractions is not equivalent to $\frac{1}{2}$?

   (A) $\frac{2}{4}$ (B) $\frac{4}{8}$ (C) $\frac{3}{6}$ (D) $\frac{3}{9}$

7. 444 packets of milk were distributed equally to 12 schools. How many packets of milk did each school receive?

   (A) 38   (B) 87   (C) 37   (D) 88

8. 42 years is the same as ☐? decades and ☐? years. What are the missing numbers in the boxes?

   (A) 3, 6   (B) 3, 8   (C) 4, 0   (D) 4, 2

9.
   | Laya : I have twenty Rs. 1 notes. |
   | Leena: I have two Rs. 5 notes and six ten paise |

   Laya and Leena want to buy a present for their mother. The price of the present is Rs. 32. Which statement is true?

   (A) Their balance is 20 paise
   (B) Their balance is Rs. 1.40
   (C) They are short of 80 paise
   (D) They are short of Rs. 1.40

10. The circles below are not drawn to scale. Which two circles have the same area?
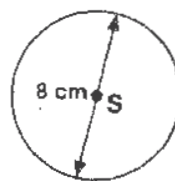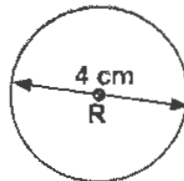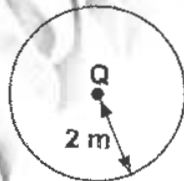
   (A) P and Q   (B) Q and R   (C) P and R   (D) R and S
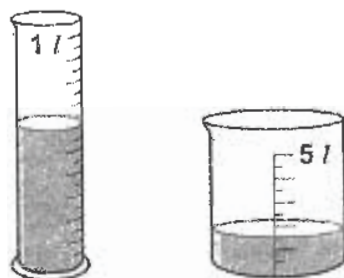
11. $5082 \div 6 = $ ☐

   The missing number in the box, rounded to the nearest hundred is:

   (A) 800   (B) 847   (C) 850   (D) 900

12. Stick P is 40 cm shorter than stick Q. Stick R is 60 cm longer than stick Q. Find the difference in length between stick P and stick R.

   (A) 20 cm   (B) 80 cm   (C) 100 cm   (D) 160 cm

13. The total volume, in l, of water in the two cylinders, shown below is:

(A) 1.8   (B) 2.1   (C) 2.0   (D) 2.2

14. Which of the following shows that less than $\frac{1}{2}$ of the whole diagram is shaded?

(A)   (B)   (C)   (D)

15. Which day is sixteen days after the date shown?

2010
January
1
Friday
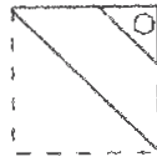
(A) Monday   (B) Wednesday   (C) Saturday   (D) Sunday

16. Meena puts 10 sweets into each plastic bag. How many sweets are needed for 500 bags?

(A) 50   (B) 500   (C) 5000   (D) 50000

17. Figures, X, Y and Z are a sequence of folding a piece of paper. Choose a figure which would most closely resemble the unfolded form.
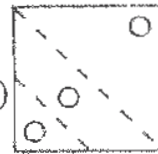
X   Y   Z

(A)   (B)   (C)   (D)

18. Himesh cycled 400 m from his house to his school. On his way home, he stopped at a bookshop. Find the distance between the bookshop and his school if he had to cycle another 120 m to reach home.

   (A) 520 m   (B) 380 m   (C) 320 m   (D) 280 m

19. Which combination of notes does not give an amount of Rs. 5210?

   (A) 50 - Rs.100 notes, 20 - Rs.10 notes, 1 - Rs.10 note

   (B) 50 - Rs.100 notes, 15 - Rs.10 notes, 6 - Rs.10 notes

   (C) 40 - Rs.100 notes, 20 - Rs.50 notes, 20 - Rs.10 notes

   (D) 40 - Rs.100 notes, 22 - Rs.50 notes, 11 - Rs.10 notes

20. A pizza was cut into 8 equal pieces. Kamal ate a piece and Sujath ate 2 pieces. What fraction of the pizza was left?

   (A) $\dfrac{1}{8}$ (B) $\dfrac{3}{8}$ (C) $\dfrac{5}{8}$ (D) $\dfrac{3}{4}$

21. Which of the multiplication sums below does not give the same result?

   (A) 192×4 (B) 94×8 (C) 384×2 (D) 128×6

22. You have to tie a string around this box. If the length of the knot is 25 cm, how many centimetres of string will you need?
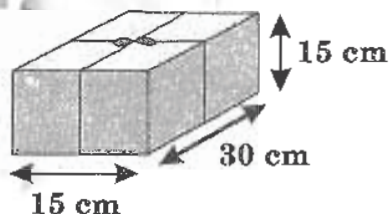
   (A) 190 cm   (B) 192 cm

   (C) 145 cm   (D) 175 cm

23. In a stadium, there are 1050 men and the number of women is 236 more than the number of men. The number of children is 847 less than the number of women. What is the total number of people altogether?

   (A) 1725   (B) 2133

   (C) 2775   (D) 2875
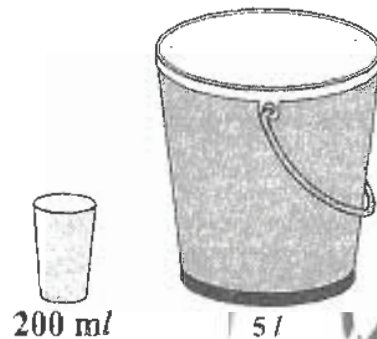
24. $\frac{8}{10}$ expressed in its simplest form is:

(A) $\frac{3}{4}$ (B) $\frac{4}{5}$

(C) $\frac{1}{8}$ (D) $\frac{1}{10}$

25. The diagram shows the capacities of a glass and a bucket.

200 ml 5 l

How many glasses of water are needed to fill up the bucket?

(A) 15   (B) 20   (C) 25   (D) 40

26. 1685 less than the product of 9 and 396 is:
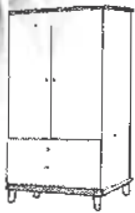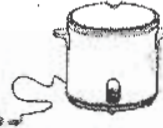
(A) 1280   (B) 1879
(C) 3564   (D) 5249

27. The diagram shows the prices of four items.

Rs. 250 | Rs. 230.50 | Rs. 344.70 | Rs. 400

Rohit has four Rs. 50 notes, seven Rs. 5 notes, nine Rs. 1 notes and seven 10 paise coins. Which item can he buy with the money?

(A) A handphone   (B) A cupboard
(C) A camera   (D) A rice cooker

28. The diagram shows the total mass of two similar bottles of milk.
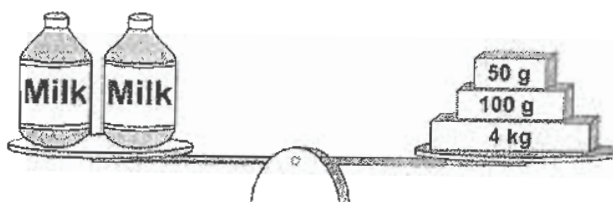
Mass of each bottle of milk is:

(A) 275 g   (B) 2 kg 75 g

(C) 2 kg 300 g   (D) 2 kg 750 g

29. In a 100-metre race, Kamali is 36 m from the starting point. How many metres is she from the finishing point?

(A) 136   (B) 66

(C) 64   (D) 54

30. A monkey is trying to climb a 6-metre coconut tree.

It climbs for 1 minute and rests for 1 minute.

It climbs 2 m every minute but it slides down 1 metre for every minute that it rests.

How many minutes will it take to reach the top of the tree?
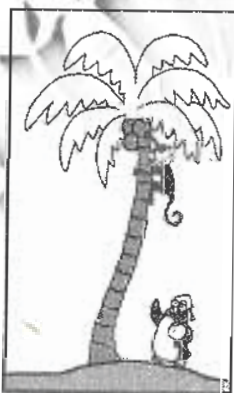
(A) 5 minutes   (B) 7 minutes

(C) 6 minutes   (D) 9 minutes

31. $70\,217 \div \boxed{} = 702$ remainder 17

The missing number in the box is :

(A) 10   (B) 100   (C) 1000   (D) 10 000

32. The table shows the volume of each type of canned drink.

Drink	Volume
W	1 *l* 480 ml
X	1 *l* 250 ml
Y	1 *l* 420 ml
Z	1 *l* 500 ml

Which two types of drinks have a total volume of 2.75 *l*?

(A) W and X   (B) X and Y   (C) X and Z   (D) Y and Z

33. The table shows a bill for some items.

Quantity	Item	Price per unit	Price
2	Fan	Rs. 180	Rs. 360
5	Rice cooker	Rs. 278	
9	VCD player	X	Rs. 8172
		Total	Rs. 9922

The value of X is:

(A) Rs. 98   (B) Rs. 880   (C) Rs. 908   (D) Rs. 980

34. The diagram consists of several equal triangles.
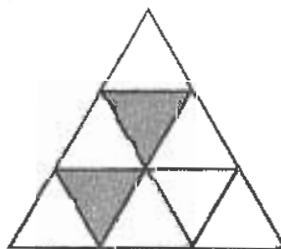
How many more triangles need to be shaded so that $\frac{2}{3}$ of the diagram is shaded?

(A) 4   (B) 3   (C) 2   (D) 1

35. Sandesh jogs 800 m every day except on Monday. What is the total distance that he jogs in a week?

(A) 8000 m   (B) 5600 m
(C) 4800 m   (D) 4000 m

36. Mrs. Reena bought a 1 kg cake. The cake was cut into 8 equal pieces. What was the mass, in g, of each piece?

(A) 125 g   (B) 150 g   (C) 175 g   (D) 200 g

37. How many 6's are there in the product of 18 and 80?

(A) 108   (B) 240   (C) 180   (D) 143

38. $\dfrac{1}{2} = \dfrac{3}{6} = \dfrac{5}{\square}$

the missing denominator in the box is:

(A) 2   (B) 8   (C) 10   (D) 12

39. 2 hours 10 minutes after 7 : 20 a.m. is:

(A) half past nine   (B) ten minutes past nine
(C) half past five   (D) ten minutes past five

40. The diagram shows a number sentence.

$$P \times 1000 \text{ ml} = 7.65\, l$$

What is the value of P?

(A) 7.65   (B) 76.5   (C) 765   (D) 7650

41. Class 4 has 38 pupils. Each pupil spends between 90 paise and Rs. 1.20 per day. Estimate the total amount spent by the pupils in a day.

(A) Rs. 20   (B) Rs. 35   (C) Rs. 60   (D) Rs. 75

42. Which of the following solid figures has an even number of faces?
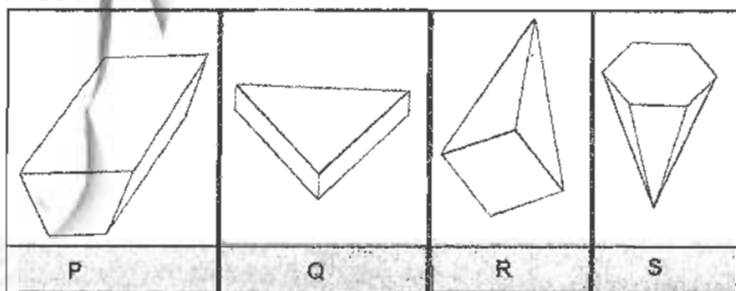
(A) P only   (B) P and Q only
(C) P, Q and R only   (D) Q and S only

43. In the diagram below, the mass of the given object is :
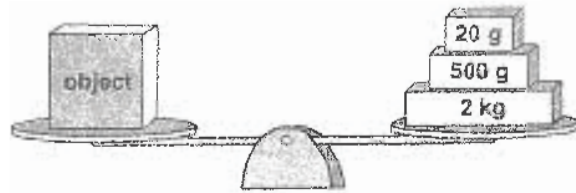
(A) 720 g   (B) 2520 g
(C) 2700 g   (D) 20 520 g

44.
```
      2 3 4 5
 ×        2 7
 ────────────
  1 6 4 2 5
  4 6 9 0 0
 ────────────
  6 3 3 2 5
```

In the calculation above, the product 63 325 is wrong because of one digit. Which underlined digit is wrong?

(A) 1   (B) 2
(C) 4   (D) 9

45. Which unit is suitable for measuring the thickness of a 50 paise coin?

(A) Millimetre   (B) Centimetre
(C) Metre   (D) Kilometre

CLASS : IV   GENERAL SCIENCE

46. **Cotton, leather and latex are materials that _____.**

    (A) come from only animals

    (B) come from only plants

    (C) come from non-living things

    (D) come from living things

47. **We have different types of teeth canines, incisors, premolars and molars.**

    How do teeth help in digestion?

    (A) They produce digestive juices

    (B) They break down food into simple substances

    (C) They protect our digestive organs

    (D) They tear, cut, crush or grind food into small pieces

48. **A venus flytrap plant, closes its leaves to trap insects. This shows that the plant is:**

    (A) reproducing

    (B) respiring

    (C) responding to changes around it

    (D) moving from one place to another

49. Which of the following is NOT true about the organism given below?

(A) It lays eggs   (B) It takes care of its babies

(C) It lives in water   (D) It protects itself from enemies

50. Mangroves develop aerial roots. This is an adaptation to the :

(A) type of soil

(B) temperature

(C) sunlight

(D) amount of rain

51. Which of the following is a difference between a cat and a balloon?

(A) The cat cannot move but the balloon can move

(B) The cat cannot grow but the balloon can grow

(C) The cat can reproduce but the balloon cannot reproduce

(D) The cat is a non-living thing but the balloon is a living thing

52. The figure given below shows an experiment.

The plant responds to:

(A) touch   (B) sunlight   (C) gravity   (D) water

53. The picture shows the people crossing at a pedestrian crossing. The signal shown is for the vehicles. What would be the colour of the signal at this time?

(A) Amber   (B) Red   (C) Green   (D) Any colour

54. The following are human digestive organs except:

(A) liver   (B) pancreas

(C) kidneys   (D) salivary glands

55.
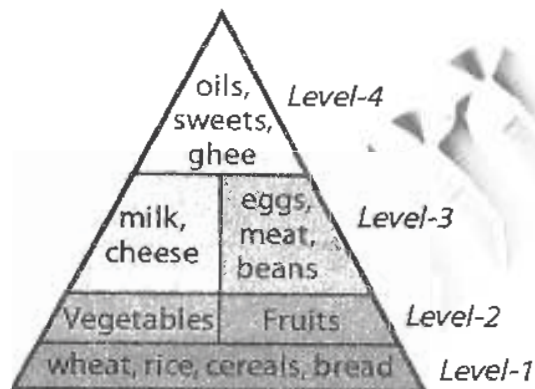
The food items in level 1 are rich in:

(A) fats   (B) proteins

(C) carbohydrates   (D) minerals

56. What kind of soil is good for vegetables?

(A) Loam   (B) Sand

(C) Clay   (D) Gravel

57. The figure below shows a tooth that is decayed.

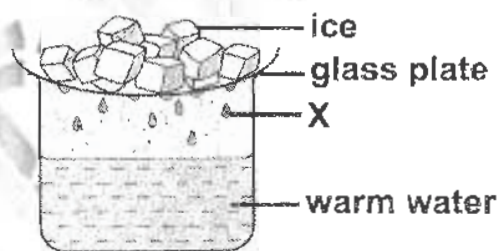What causes a tooth to become decayed?

(A) Eating too many nuts   (B) Brushing teeth regularly

(C) Not exercising enough   (D) Bacteria in the mouth

58. The instrument shown in the figure below helps our sense of:

(A) smell   (B) sight   (C) hearing   (D) touch

59. The figure below shows an activity which has been carried out in a laboratory.

Which of the following phenomena is exhibited by 'X'?

(A) Freezing of water   (B) Condensation of water vapour

(C) Evaporation of water   (D) Expansion of water

60. Water is needed by all living things. Which part of the human body contains the most water?

(A) Lungs   (B) Liver

(C) Backbone   (D) Blood

61. On a hot day, it is more suitable to wear white coloured clothes than dark-coloured clothes because white-coloured clothes :

(A) protect us from cold   (B) reflect the heat

(C) are good absorbers of heat(D) none of the above

62. Which of the following organisms and their body coverings is wrongly matched?

(A) Fish–scales   (B) Crocodile–shell

(C) Polar bear–fur   (D) Lion–hair

63.

| Bat | Whale | Deer |

How are the above animals similar?

(A) Their eggs have hard shells

(B) Their eggs must be incubated

(C) They give birth to live young

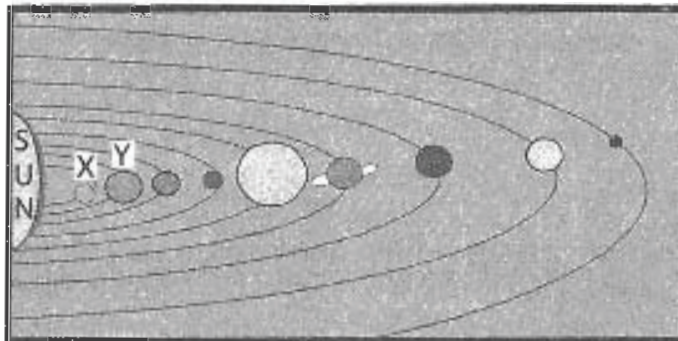(D) They do not look after their young

64. Which of the following statements about the plant given below is/are true?

water hyacinth

(A) Spongy and swollen leaf stalks

(B) Hairy leaves

(C) Leaves coated with a layer of wax

(D) Both A and C

65. The figure given below shows two nearest planets to the Sun in the Solar System.

What are planets X and Y?

(A) X–Earth, Y–Venus   (B) X–Mercury, Y–Earth

(C) X–Mercury, Y–Venus   (D) X–Mars, Y–Venus

66. Humans need air to stay alive because air contains:

(A) oxygen   (B) water vapour

(C) carbon dioxide   (D) nitrogen

67. Which of the following are the basic needs of the living thing in the figure given below?

(A) Food and air   (B) Food and water

(C) Air, water and food   (D) Air, water and sunlight

68. Neetu prefers to wear a woollen sweater during winter season. This keeps her body warm by:

(A) absorbing heat from sunlight

(B) not allowing body heat to escape

(C) heating the body

(D) none of these

69.

> Water ⟶ Steam / vapour

What processes is involved in the above change of state of water?

(A) Evaporation   (B) Melting

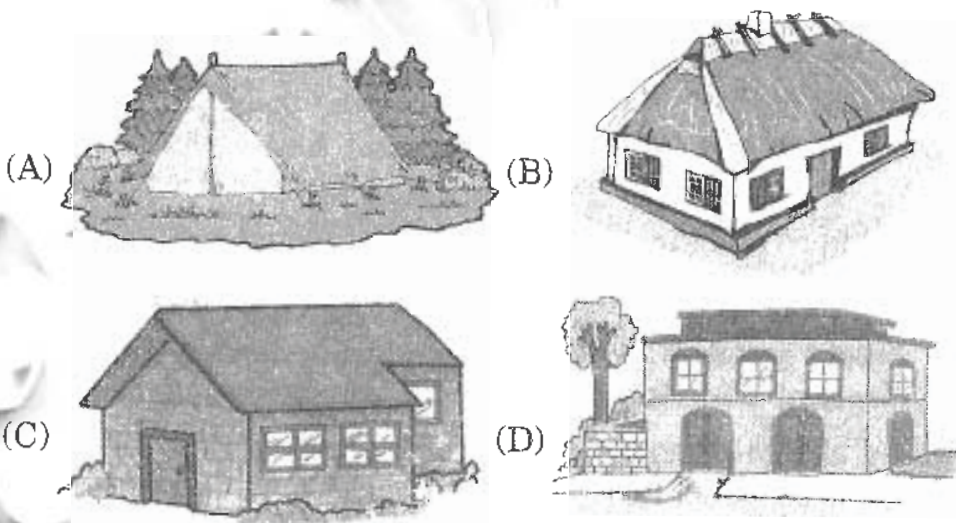(C) Freezing   (D) Condensation

70. The diagram given below shows the stages in the life cycle of an insect.
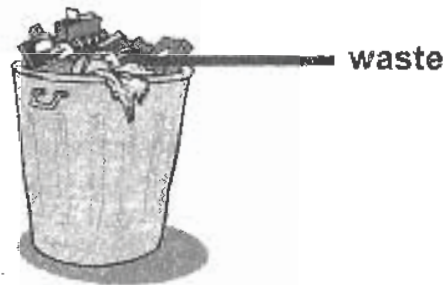

Which is the correct order?

(A) R, S, Q, P   (B) P, S, R, Q

(C) Q, P, S, R   (D) Q, S, P, R

71. Which of the following houses is the most stable?

(A)   (B)

(C)   (D)

72. **The diagram below shows an exposed garbage bin.**

waste

The situation above encourages the spread of:

(A) cold   (B) tuberculosis

(C) pellagra   (D) cholera

73. **What is the first aid given to a person rescued from a fire accident?**

(A) Apply ghee and oil on the burns

(B) Tie a cloth tightly on the burnt area

(C) Keep ice packs on the burnt area

(D) Give anti-venom injections

74. **The sun appears to be rising and setting due to the:**

(A) revolution of the earth   (B) rotation of the earth

(C) movement of the sun   (D) rotation of the moon

75. **A deficiency disease that is common amongst people who eat polished rice is:**

(A) scurvy   (B) rickets

(C) beri-beri   (D) night blindness

76. **Observe the diagram given below.**
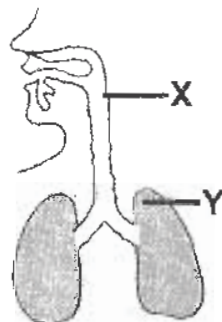
_____ travels through 'X' before it reaches 'Y'.

(A) Water   (B) Food   (C) Air   (D) Blood

77. What are you exerting when you push or pull an object?

(A) Force   (B) Matter
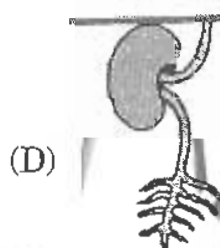
(C) Motion   (D) Mass

78. The diagram below shows the stages in the growth of a seed to an adult plant. At which stage is sunlight necessary for the seedling?

(A)   (B)

(C)   (D)
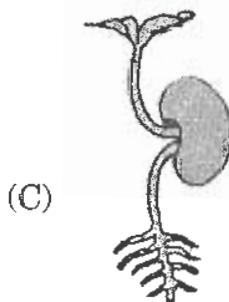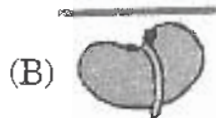
79. The figure given below shows the process to make clothing.

X → Thread → Cloth → T-shirt

What are the natural materials represented by 'X'?

(A) Animals only   (B) Plants only

(C) Chemicals and plants   (D) Both animals and plants

80. The diagram below shows a plant.
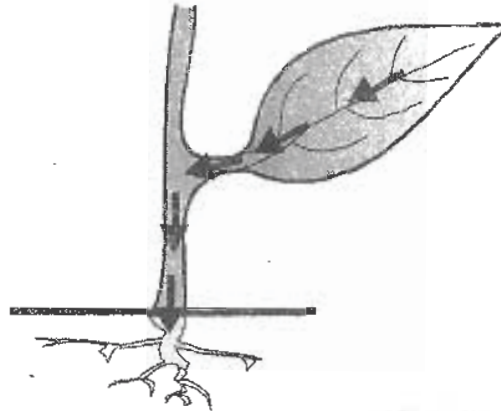
The arrows in the diagram show the path taken by the:

(A) food   (B) water   (C) sunlight   (D) carbon dioxide

81. The figure below shows the daily diet of a primary school student.

Noodles   **Biscuits**
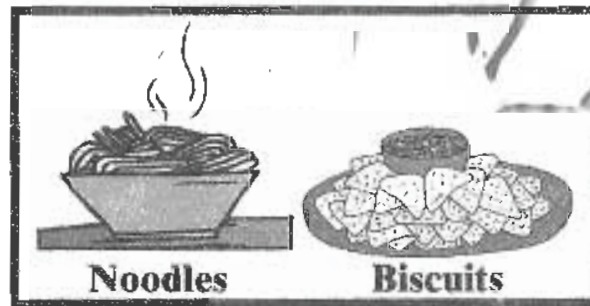
It is not a balanced diet for the child. Which of the following is needed for the child to build up his/her body?

(A) Proteins   (B) Carbohydrates

(C) Fats   (D) Fibre

82. Whales can protect themselves in cold temperature because they have:

(A) long tails   (B) thick fur

(C) a thick layer of fat   (D) a hump

83. Which of the following developed technology enable us to watch live football matches?

(A) Facsimile machine   (B) Telephone

(C) Radio   (D) Satellite

84. During digestion, the food from the stomach will move into the:

(A) liver   (B) food pipe

(C) large intestine   (D) small intestine

85. Which of the following activities would need the most energy?

(A) Riding a bicycle up a hill

(B) Walking

(C) Riding a bicycle on level ground

(D) Doing homework

86. 'X' enables work to be done. There are many forms of 'X'. What is 'X'?

(A) Energy   (B) The Sun

(C) Heat   (D) Sound

87.
Prevents night blindness
Prevents skin diseases
Found plentiful in carrots

The above information is true for:

(A) Vitamin C   (B) Vitamin A

(C) Vitamin B   (D) Vitamin K

88. The following figure shows a girl using a towel to wipe her sweat.

The material used to make the towel must be able to:

(A) float on water   (B) transmit light

(C) absorb water   (D) conduct heat

89. Which of these substances has definite volume but no fixed shape?

(A) Book   (B) Oxygen

(C) Water vapour   (D) Lemon juice

90. Mrs. Seema washed her clothes and hanged them out. They dry fastest on a:

(A) humid day   (B) windy day

(C) sunny and humid day   (D) sunny and windy day

CLASS : IV   GENERAL KNOWLEDGE

91. Which number should come next in the series given below?

$$21, 24, 30, 33$$

(A) 41   (B) 34   (C) 36   (D) 39

92. Which figure should come next in the series given below?

(A)   (B)   (C)   (D)

93. In which Indian state would you be if you visited Jaisalmer?

(A) Orissa   (B) Gujarat   (C) Rajasthan   (D) Manipur

94. Who was the first Indian musician to win two Oscar Awards?

(A) A.R. Rahman   (B) Mohammed Rafi
(C) Britney Spears   (D) Lata Mangeshkar

95. If in a certain language PROSE is coded as PPOQE, how is LIGHT coded in that code?

(A) LGGFT   (B) LLGFE   (C) LGIFT   (D) LGGHT

96. Which of the following is NOT a Harry Potter series?

(A) The Goblet of Fire   (B) The Chamber of Secrets
(C) Escape to Magic Mountain   (D) The Deathly Hallows

97. With which sport would you associate the famous player Venus Williams?

(A) Badminton   (B) Chess   (C) Tennis   (D) Swimming

98. The creator of the most popular cartoon character 'Mickey Mouse' is:

(A) Enid Blyton   (B) George Bernard Shaw
(C) Walt Disney   (D) Anne Enright

99. Kavaratti is the capital of the Union Territory:

(A) Daman & Diu   (B) Lakshadweep
(C) Dadra & Nagar Haveli   (D) Puducherry

100. Jamini Roy, Satish Gujral and M.F. Hussain are all eminent:

(A) writers   (B) players
(C) painters   (D) politicians

KEY FOR THE Q.P.-2010

1.	D	2.	D	3.	D	4.	D	5.	D	6.	D	7.	C	8.	D
9.	D	10.	C	11.	A	12.	C	13.	D	14.	D	15.	D	16.	C
17.	A	18.	D	19.	C	20.	C	21.	B	22.	D	23.	C	24.	B
25.	C	26.	B	27.	B	28.	B	29.	C	30.	D	31.	B	32.	C
33.	C	34.	A	35.	C	36.	A	37.	B	38.	C	39.	A	40.	A
41.	B	42.	A	43.	B	44	B	45.	A	46.	D	47.	D	48.	C
49.	B	50.	A	51.	C	52.	B	53.	B	54.	C	55.	C	56.	A
57.	D	58.	C	59.	B	60.	D	61.	B	62.	B	63.	C	64.	D
65.	C	66.	A	67.	D	68.	B	69.	A	70.	C	71.	D	72.	D
73.	C	74.	B	75.	C	76.	C	77.	A	78.	C	79.	D	80.	A
81.	A	82.	C	83.	D	84.	D	85.	A	86.	A	87.	B	88.	C
89.	D	90.	D	91.	D	92.	B	93.	C	94.	A	95.	A	96.	C
97.	C	98.	C	99.	B	100.	C								