

# National Level Science Talent Search Examination - 2012

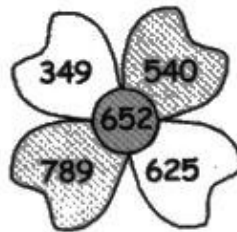
**Class : III**

**Mathematics**

**1** Which of the following shows that 124 is more than 116?

- (A)  $124 + 116$     (B)  $124 = 116$     (C)  $124 > 116$     (D)  $124 < 116$

**2** Look at the numbers in the flower below.



All of the following are correct options EXCEPT.

- (A) All are greater than 300.    (B) All are between 300 and 700.  
(C) All are less than 800.    (D) Two numbers are more than 650.

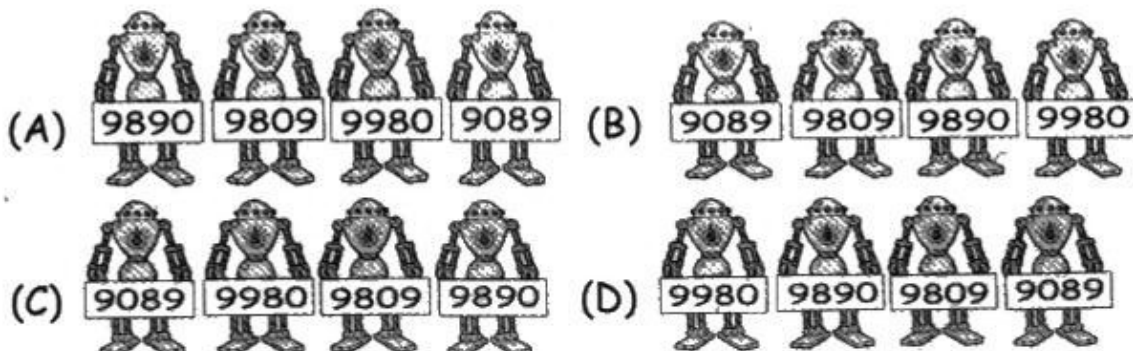
**3** Write down the numbers from 1 to 25 one after the other as shown below.

123456789 ..... 232425

Which digit is on the 23<sup>rd</sup> place from the left?

- (A) 1    (B) 3    (C) 6    (D) 7

**4** In which group are the robots in decreasing order of numbers?



5 In 1947, which digit has the highest place value?

- (A) 9                      (B) 1                      (C) 4                      (D) 7

6 Which of the following options is CORRECT?

- (A) Seven hundreds + two tens > seven hundreds + twenty ones.  
(B) Six hundreds + four ones = six tens + four ones.  
(C) Seven tens + three ones > three hundreds.  
(D) Seven hundreds + three tens = seventy tens + thirty ones.

7 Babita went to GADA ELECTRONICS to buy some electronic items. The following items were available for sale.

**Gada Electronics**

**Sale ! Sale !**

 ₹ 2500 DVD player	 ₹ 1300 MP3 player	 ₹ 400 Pendrive
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If Babita had ₹ 2850 with her, then which items can be purchased by her?

- (A) DVD player and MP3 player  
(B) DVD player and pen drive  
(C) MP3 player and pen drive  
(D) DVD player, MP3 player and pen drive

8 Chaitali has 752 story books. How many more does she need to make a collection of 1000 story books?

- (A) 248                      (B) 252                      (C) 750                      (D) 109

- 9 Tanya pasted 9 photos on each page of her album. If she used 42 pages, how many photos did she paste?

(A) 378      (B) 368      (C) 342      (D) 336

- 10 Alok had some picture postcards. They are less than 15 in number. When he puts them in piles of 5, there are 2 left over. When he puts them in piles of 4, there were none left. How many cards does Alok have?

(A) 10      (B) 12      (C) 14      (D) 15

- 11 Aiswarya has four bowls of gulabjamun as shown in figure. She wants to put them equally in four bowls. What should be the number of gulabjamuns in each bowl?



(A) 20      (B) 10      (C) 8      (D) 5

- 12 If 7 tens are added to 230 and divided by 15, then quotient is

(A) 10      (B) 15      (C) 20      (D) 30

- 13 In the word UNIFIED, which fraction represents the alphabet "I"?

(A)  $\frac{1}{7}$       (B)  $\frac{2}{7}$       (C)  $\frac{1}{6}$       (D)  $\frac{5}{7}$

14 Which of the following shapes can be divided into two EQUAL parts?

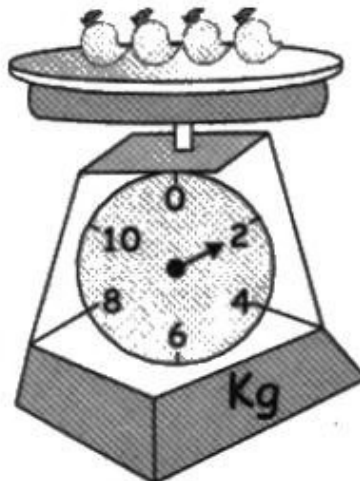


15 If the cost of 1 kitkat is ₹ 12, how many Kitkats can I get for ₹ 96 with the free offer shown?



- (A) 8                      (B) 16                      (C) 12                      (D) 20

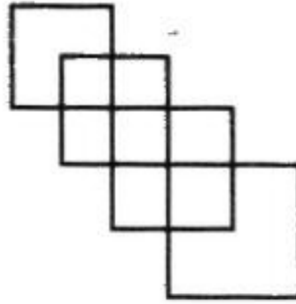
16 The scale shows how much 4 mangoes weigh.



How much would 14 mangoes of the same size weigh?

- (A) 6 kg                      (B) 7 kg  
(C) 8 kg                      (D) 9 kg

17 How many squares are there in the figure given below?





- (A) 4                      (B) 9                      (C) 11                      (D) 12

18 In a certain year, the first day of the month of July falls on Sunday. What day was it on the 1<sup>st</sup> August of the same year?

JULY						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

- (A) Wednesday                      (B) Thursday  
 (C) Friday                              (D) Tuesday

19 If  = 90 and  = 25, then  $\left( \text{Coke can} - \text{Thums Up bottle} \right) - \text{Thums Up bottle}$  is:

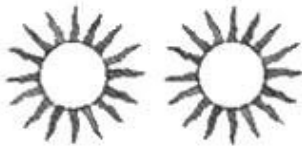
- (A) 30                      (B) 40                      (C) 50                      (D) 90

20

If



stand for 12 leaves,



stand for 18 leaves,

then



+



stand for how many leaves?

(A) 6

(B) 8

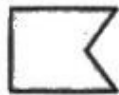
(C) 15

(D) 30

21

I am made up of 3 triangles and 1 rectangle. Which figure am I?

(A)



(B)



(C)

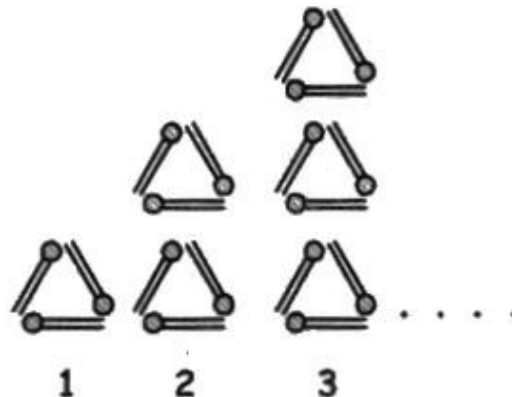


(D)



22

Each triangle requires 3 match sticks to form. At which pattern does it require 27 match sticks?



1

2

3

(A) 7

(B) 8

(C) 9

(D) 10

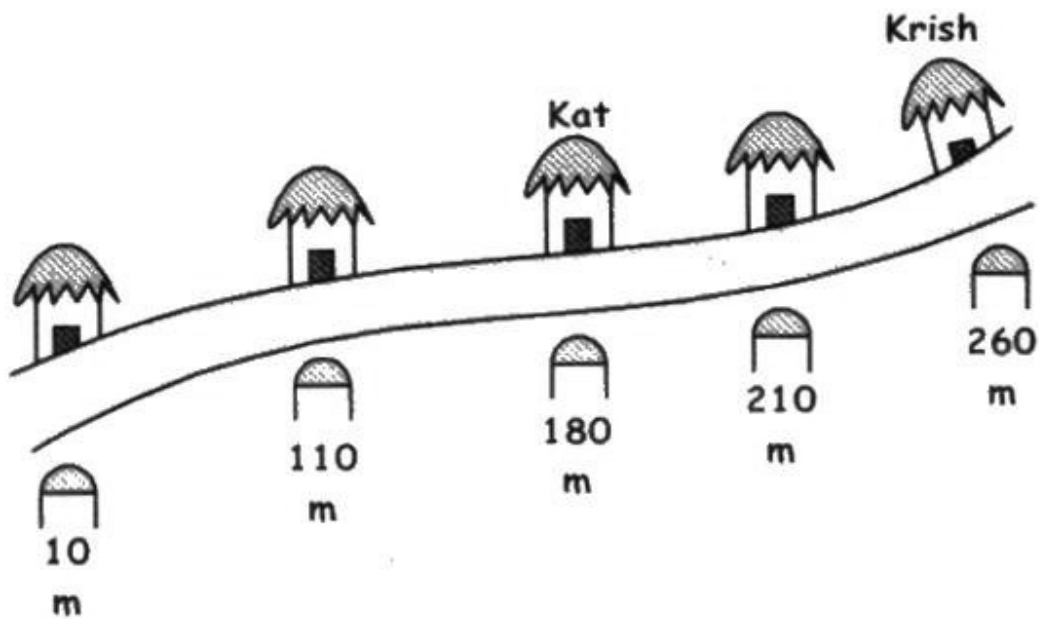
- 23 Rohit wrote the problem on board as shown below. He forgot one digit.

$$23 + 31 + 2? + 12 = 94$$

What is the digit?

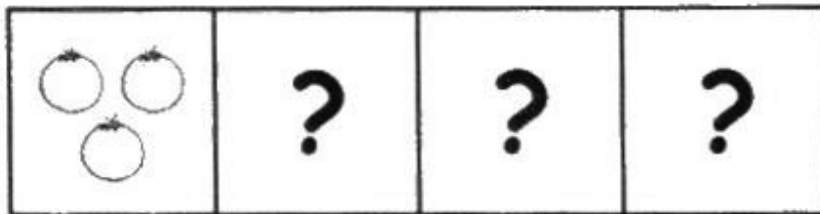
- (A) 3                      (B) 4                      (C) 6                      (D) 8

- 24 How far does Krish live from Kat?



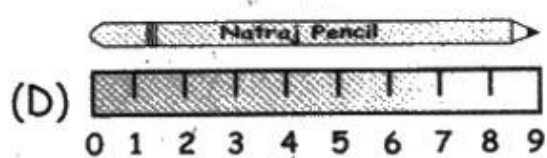
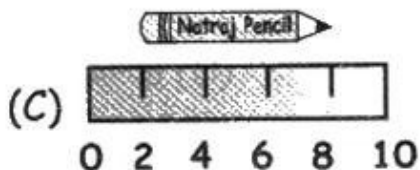
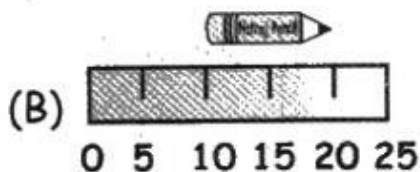
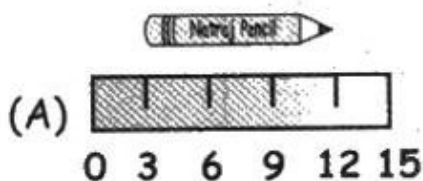
- (A) 70 m                      (B) 50 m                      (C) 80 m                      (D) 200 m

- 25 One quarter of the total number of oranges I have is 3. How many oranges do I have altogether?



- (A) 6                      (B) 9                      (C) 12                      (D) 15

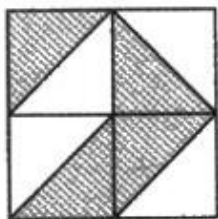
- 26 The length of each pencil is in centimetres. Which pencil is the longest?



- 27 Which option adds up to 4 thousand and 18 ones?

- (A)  $4000 + 0 \text{ hundred} + 8$   
 (B)  $4000 + 1 \text{ hundred} + 0 \text{ tens} + 18 \text{ ones}$   
 (C)  $4000 + 0 \text{ hundred} + 1 \text{ tens} + 8 \text{ ones}$   
 (D)  $4000 + 1 \text{ hundred} + 1 \text{ tens} + 8 \text{ ones}$

- 28 What part of the square is shaded?



- (A)  $\frac{1}{4}$       (B)  $\frac{3}{8}$       (C)  $\frac{1}{2}$       (D)  $\frac{3}{4}$

- 29 In the addition below,

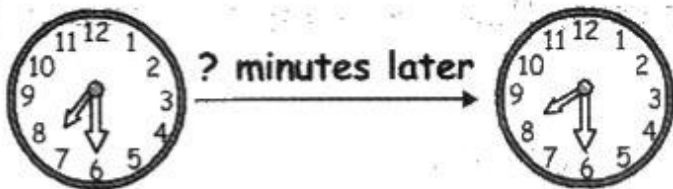
$$\begin{array}{r} 4 \diamond 9 \\ + 2 \diamond 8 \\ \hline 777 \end{array}$$

find the missing digit represented by  $\diamond$ .

- (A) 2      (B) 8      (C) 4      (D) 1



30



- (A) 20                      (B) 30                      (C) 45                      (D) 60

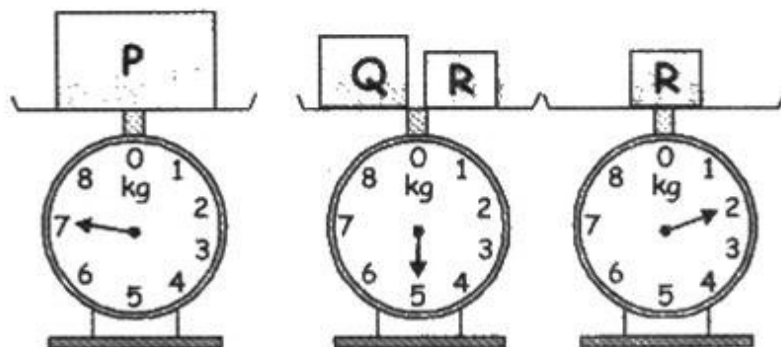
31

45 boys went to the museum. Thrice as many girls went to museum as boys. How many children went to the museum altogether?

- (A) 45                      (B) 60                      (C) 135                      (D) 180

32

Find the total mass of boxes P and Q.



- (A) 7 kg                      (B) 9 kg                      (C) 10 kg                      (D) 14 kg

33

How many  coins can be exchanged for a




note?

- (A) 2                      (B) 5                      (C) 10                      (D) 15

34

Khairavi has a 100 cm long ribbon. She wants to cut the ribbon into strips measuring 20 cm each. How many cuts will she have to make along the ribbon?

- (A) 4                      (B) 5                      (C) 6                      (D) 7

- 35** If  stands for 4 flowers, then how many flowers are there in the picture below?



- (A) 9                      (B) 27                      (C) 36                      (D) 45

- 36** What can be the mass of a chair in class room?

- (A) 3 m                      (B) 3 l                      (C) 3 cm                      (D) 3 kg

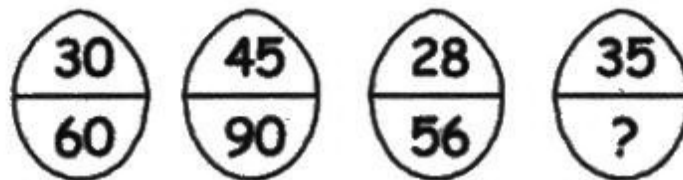
- 37** Which of the following is made up of 3 straight lines and 2 curved lines?



- 38** Find the number between 759 and 761.

- (A) 758                      (B) 760                      (C) 762                      (D) 763

- 39** What is the missing number?



- (A) 50                      (B) 65                      (C) 70                      (D) 86

- 40** There are four children. Aditya is younger than Basha. Dravid is older than Aditya. Chaitanya is older than Dravid. Who is the youngest child?

- (A) Aditya                      (B) Basha                      (C) Chaitanya                      (D) Dravid

41 Animal X has gills, can swim, has fins and reproduces by laying eggs. What type of animal is X ?

- (A) Aerial (B) Land  
(C) Aquatic (D) Desert

42 Which of the following is the correct sequence in the formation of rain ?

- (A) Water → watervapour → cloud → rain  
(B) Water → cloud → watervapour → rain  
(C) Watervapour → rain → cloud  
(D) Watervapour → water → rain

43 How does the organism given below breathe ?



- (A) Through lungs (B) Through gills  
(C) Through skin (D) Through air holes

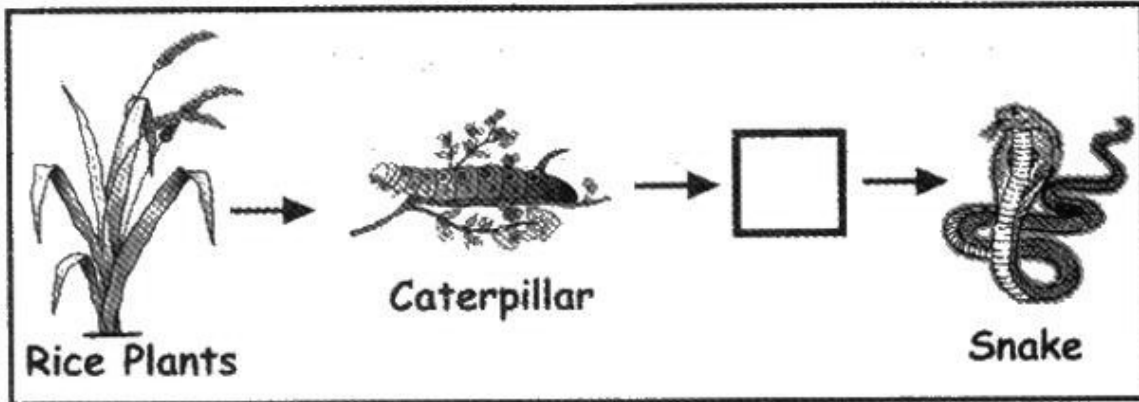
44 Which of the following groups of animals swallow their food as a whole ?

- (A) Frog, lizard, snake and crocodile.  
(B) Dog, lion, tiger and fox.  
(C) Rat, rabbit and squirrel.  
(D) Cat, dog and fox.

45 Which of the following organs is a part of nervous system ?

- (A) Kidney (B) Stomach (C) Heart (D) Brain





46 Observe the food chain given below.



Which of the following best completes the given food chain ?

- (A) Rabbit (B) Goat (C) Cat (D) Hen

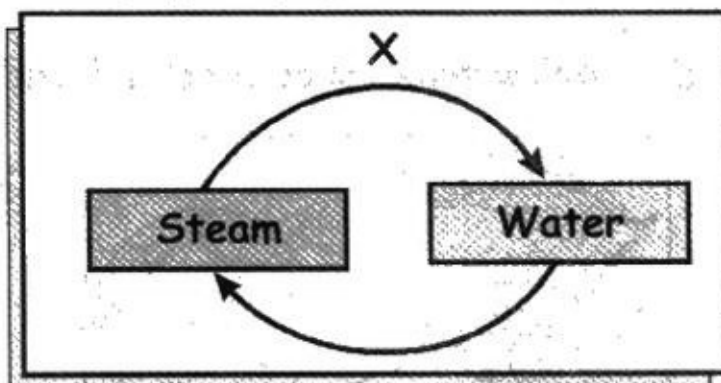
47 Look at the pictures given below.

Group X		Group Y	
 Rabbit	 Bird	 Helicopter	 Aeroplane

Which of the following classifications is correct for groups X and Y ?

Group X	Group Y
(A) Cannot move	Can move
(B) Can reproduce	Cannot reproduce
(C) Live on land	Live in air
(D) Cannot respond to stimulus	Can respond to stimulus

- 48 The diagram given below shows the changes in the state of water.



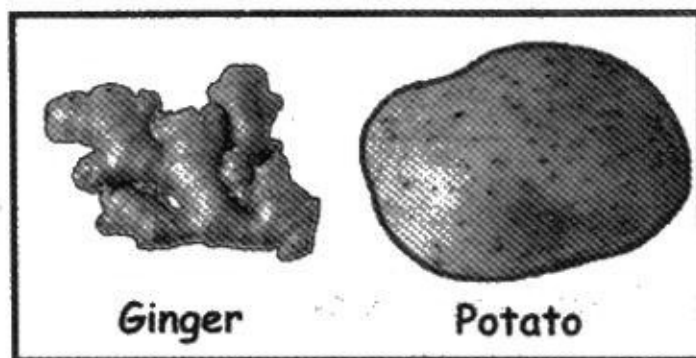
Which of the following processes is represented by 'X' ?

- 49 Which of the following gives out light and heat ?

- (A) Boiling (B) Freezing  
(C) Melting (D) Condensation

- (A) The Sun (B) The Earth  
(C) The Moon (D) A Planet

- 50 The figures given below are similar because

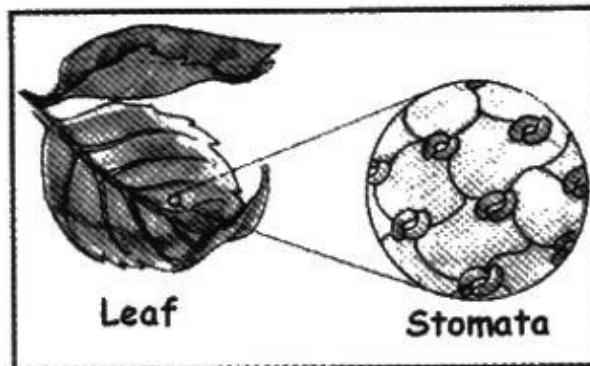


- (A) they have the same type of root system.  
(B) they store food in underground stems.  
(C) they store food in underground roots.  
(D) they store food in leaves.

51 Which of the following has a definite shape?

- (A) Steam (B) Ice (C) Orange juice (D) Oil

52 The figure given below shows special holes found in the leaves.



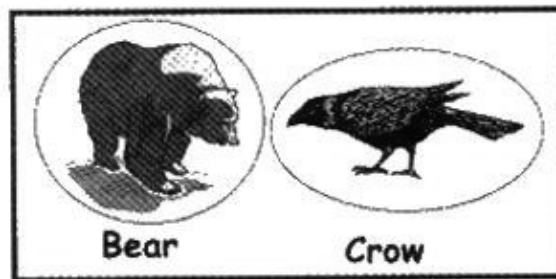
The important function of these holes is to:

- (A) take in food. (B) take in air. (C) take in water. (D) trap sunlight.

53 What is the time between a New Moon and a Full Moon ?

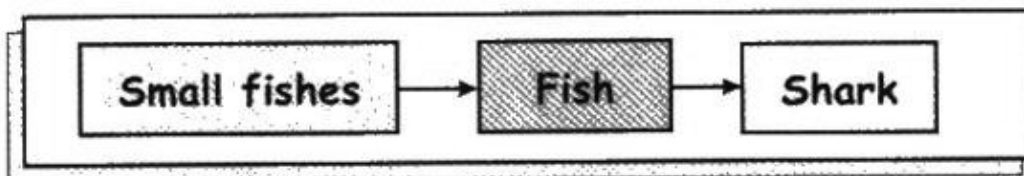
- (A) 7 days (B) 14 days (C) 21 days (D) 28 days

54 The animals given below are similar because they are :



- (A) Herbivores (B) Carnivores (C) Omnivores (D) Insectivores

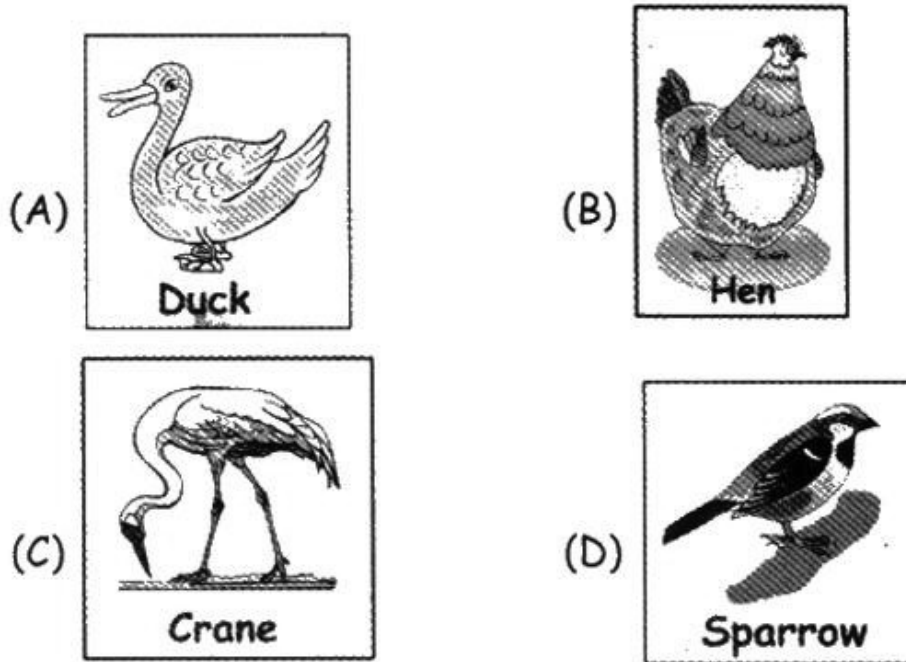
55 Observe the figure given below.



Which of the following statements is true about the given figure?

- (A) Life cycle of fish. (B) Life cycle of shark.  
(C) Food chain in the sea. (D) Growth of fish.

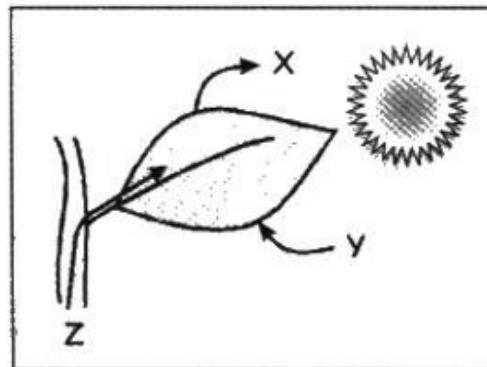
56 Which of the following birds is called a perching bird ?



57 Which of the following materials is obtained from plants ?

- (A) Wool      (B) Cotton      (C) Silk      (D) Nylon

58 The diagram given below represents a process that takes place in the presence of sunlight.

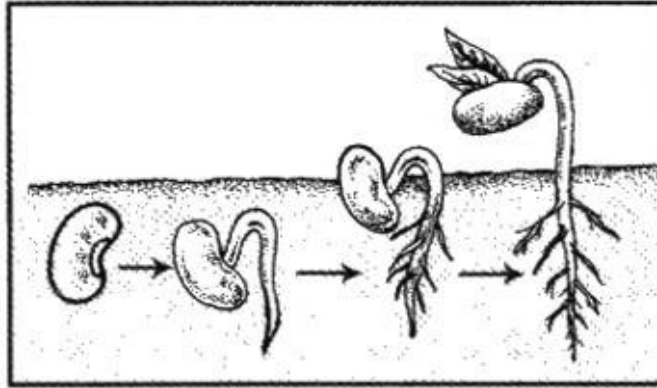


Which of the following rows represents that arrows labelled as X, Y and Z is true ?

	X	Y	Z
(A)	Oxygen	Water	Carbondioxide
(B)	Carbondioxide	Oxygen	Water
(C)	Water	Oxygen	Carbondioxide
(D)	Oxygen	Carbondioxide	Water



- 59 Which of the following characteristics of living things is represented by the figure given below ?



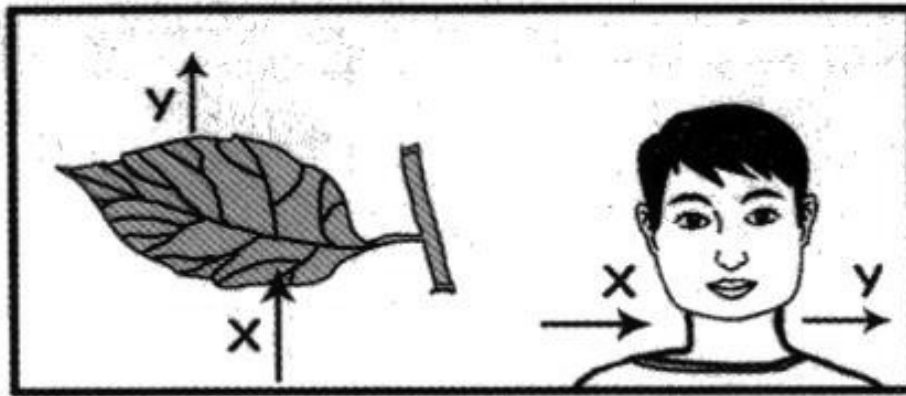
- (A) Living things move.  
(B) Living things need food.  
(C) Living things grow.  
(D) Living things respond to stimulus.
- 60 Which of the following birds make their nests in the ground?
- (A) Partridge (B) Bulbul  
(C) Owl (D) Cuckoo
- 61 The strong and heavy beak shown in the figure given below is used to



- (A) catch fish.  
(B) make holes in the trunk.  
(C) pull out insects from holes.  
(D) suck nectar.



62 Observe the diagram given below.



The diagram shows that all living things need:

- (A) to take in oxygen and give out carbondioxide.
- (B) to take in carbon dioxide and give out oxygen.
- (C) To take in carbon dioxide and give out carbondioxide.
- (D) To take in oxygen and give out oxygen.

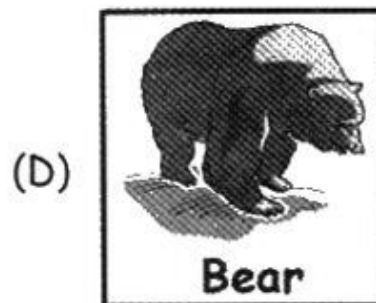
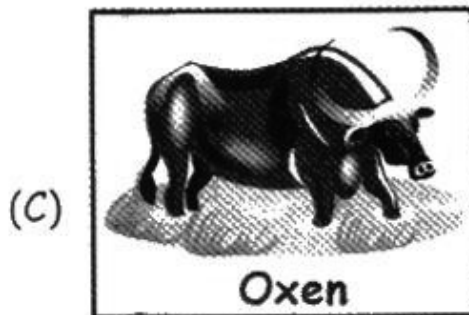
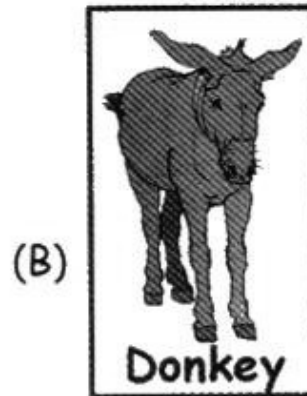
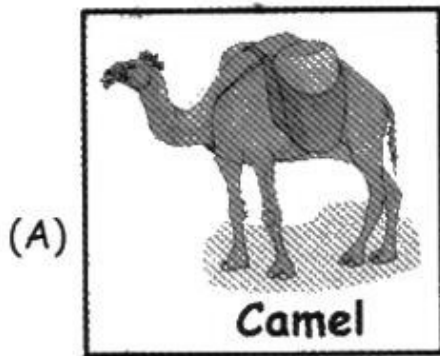
63 Which of the following kinds of soil is found in deserts ?

- (A) Clayey soil
- (B) Loam soil
- (C) Sandy soil
- (D) Gravel

64 Which of the following organs and its organ system is paired correctly ?

- (A) Brain - Excretory system
- (B) Lungs - Respiratory system
- (C) Heart - Nervous system
- (D) Stomach - Circulatory system

- 65 Which of the following animals does NOT help us to carry loads ?



- 66 Which of the following organs are protected by the rib cage?

W	Lungs
X	Heart
Y	Liver
Z	Brain

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

- 67 The moon is a natural satellite of the earth. It has no light of its own and yet it shines at night. Which of the following statements is true about the above information?

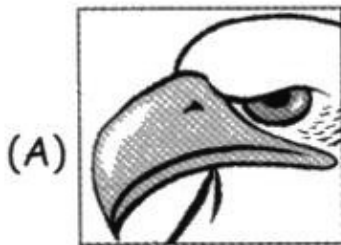
- (A) The moon absorbs light from the sun.  
(B) The moon has many lamps.  
(C) The moon is covered with a thin layer of snow.  
(D) The moon reflects the light of the sun.

**68** Match the sense organs in Column-I to their function in Column-II.

	Column-I		Column-II
a	Ears	i	Taste
b	Nose	ii	Touch
c	Skin	iii	Smell
d	Tongue	iv	Hear

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

**69** The beak of the parrot resembles with which of the following shapes ?



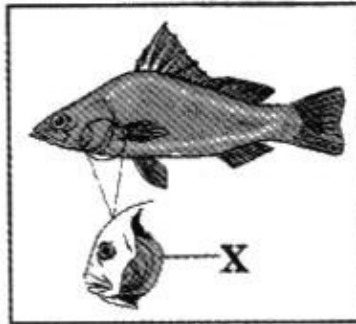
**70** Which of these sources of energy drives the water cycle?

- (A) Coal      (B) Candle      (C) The sun      (D) Lamp

**71** Which of the following terms can be used to name the soil that is formed by the decomposition of dead plants and animals?

- (A) Clay      (B) Humus      (C) Sand      (D) Silt

72 Observe the figure given below.



Identify the function of the part labelled as 'X' in the given figure?

(A) Nutrition (B) Breathing (C) Excretion (D) Growth

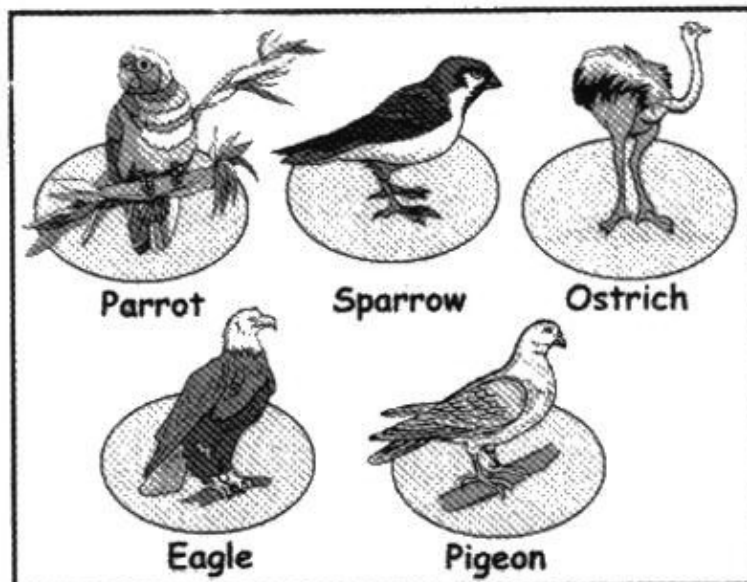
73 Which type of stimulus is NOT detected by our skin ?

(A) Heat (B) Cold (C) Pain (D) Light

74 Which of the following activities make air unclean?

- (A) Smoke from automobiles and factories
- (B) Washing clothes
- (C) Watering plants
- (D) Boiling milk

75 Identify the one that does not belong to the given group.



- (A) Parrot
- (B) Pigeon
- (C) Ostrich
- (D) Sparrow

●●● ————— **Key for NSTSE-2012** ————— ●●●

1. C	2. B	3. C	4. D	5. B	6. D	7. C	8. A	9. A	10. B
11.D	12. C	13.B	14. B	15. C	16. B	17. C	18. A	19. B	20. C
21.B	22. C	23.D	24. C	25. C	26. B	27. C	28. C	29. B	30. D
31.D	32. C	33.C	34. A	35. C	36. D	37. C	38. B	39. C	40. A
41.C	42. A	43.D	44. A	45. D	46. D	47. B	48. D	49. A	50. B
51.B	52. B	53.B	54. C	55. C	56. D	57. B	58. D	59. C	60. A
61.B	62. A	63.C	64. B	65. D	66. A	67. D	68. B	69. C	70. C
71.B	72. B	73.D	74. A	75. C					