VISTO-2015 - 16

(VELAMMAL INTER SCHOOL SCIENCE TALENT OLYMPIAD)

SEASON – II
CLASS - VI

Duration: 2hrs.   **Max. Marks: 100**

INSTRUCTIONS TO THE CANDIDATE

1. a) Write your **NAME** and **CLASS** in the space provided on **OMR** Response sheet.

   b) You have to mark the answers on the **OMR** Response sheet only.

   c) You have to handle the **OMR** Response sheet with utmost care.

   d) Do not fold/mutilate or make any unnecessary markings on the **OMR** Response sheet.

   e) Use **BLUE** or **BLACK BALL POINT PEN** only to darken the appropriate circles in **OMR** Response sheet.

2. Answers marked with **PENCIL** will not be considered for evaluation.

3. This Question Paper consists of **100 QUESTIONS**, under four subject heads, **MATHEMATICS (40 Questions), PHYSICS (20 Questions), CHEMISTRY (20 Questions) and BIOLOGY (20 Questions).**

4. Each question has four alternative responses marked a, b, c, d. You have to darken the appropriate circle provided in the OMR Response sheet against each question.

5. **1 MARK** will be awarded for every correct response for all the questions in **ALL THE FOUR SUBJECTS.**

6. **NO** mark will be deducted for incorrect response.

7. Usage of Calculators, Log tables and Electronic gadgets is strictly prohibited in the examination hall.

8. Return the OMR Response sheet to the Invigilator at the end of Examination, before leaving the examination hall.

*** *All the best* * * *

MATHEMATICS

1. The number of positive integers between -5 and 0 is ....
   a) 5   b) 0   c) 10   d) 7

2. Identify the correct descending order of 0, 7, -3, -9, -132, 36 among the following:
   a) 36, 7, 0, -3, -9, -132   b) 36, 7, 0, -132, -9, -3
   c) -3, -9, -132, 0, 7, 36   d) -132, -9, -3, 0, 7, 36

3. The smallest among the fractions $\frac{3}{4}, \frac{5}{6}, \frac{7}{12}$ and $\frac{2}{3}$ is ....

   a) $\frac{2}{3}$ b) $\frac{7}{12}$ c) $\frac{5}{6}$ d) $\frac{3}{4}$

4. Three cans contain 23.261ml, 60.5ml and 71.486ml of kerosene respectively. What should be the minimum capacity of a can that can hold the total quantity of kerosene?
   a) 160l b) 155l c) 150l d) 170l

5. The total cost of flooring a room at Rs.8.50 per sq. meter is Rs.510. If the length of the room is 8m then the breadth is ....
   a) 5.7m   b) 7.5m   c) 6.7m   d) 7.6m

6. If $\frac{2}{3}p - 2\frac{1}{2} = 3\frac{1}{2}$ then p = ...
   a) -9   b) 6   c) 9   d) 0

7. A fraction is equivalent to $\frac{5}{8}$. Its denominator and numerator add up to 91. What is the difference between the denominator and numerator of this fraction?
   a) 21   b) 33   c) 13   d) 19

8. The length of a rectangle is 4 times as long as its breadth. If the length is 8cm shorter and breadth is 4cm longer, a square will be formed, then the area of the rectangle is ....
   a) 16cm²   b) 32cm²   c) 64cm²   d) 80cm²

9. The ratio of 250ml to 2 litres is ....
   a) 250 : 2   b) 250 : 200   c) 1 : 8   d) 125 : 1

10. The ratio of two numbers is 3 : 4 and their H.C.F is 4 then their LCM is ....
    a) 12   b) 16   c) 24   d) 48

11. Among the following the correct sequence in increasing order is ....

    a) $\frac{223}{71}, \pi, \frac{22}{7}$ b) $\pi, \frac{223}{71}, \frac{22}{7}$ c) $\frac{22}{7}, \pi, \frac{223}{71}$ d) $\frac{223}{71}, \frac{22}{7}, \pi$

12. Sumeet purchased a book costing Rs.24.75 and a pencil box. He got back Rs.32.75 when he gave a Rs.100 note. The cost of the pencil box is ....
    a) Rs.24.75   b) Rs.42.75   c) Rs.42.50   d) Rs.45.20

13. If Rs.66666 is divided in the ratio 1 : 2 then the smaller amount is ....
    a) Rs.11111   b) Rs.22222   c) Rs.33333   d) Rs. 44444

14. If 9, x, x, 49 are in proportion then x = ...
    a) 7   b) 14   c) 21   d) 35

15. If $4 + 5(p - 1) = \dfrac{2}{3}$ then p = ...

    a) $\dfrac{1}{3}$ b) 3   c) $\dfrac{2}{3}$ d) $\dfrac{1}{4}$

16. **Statement A:** $4\dfrac{1}{2}\%$ of 3m is 1.35cm

    Statement B: The simplest ratio of Rs.75 to 50 paise is 1 : 150

    a) Both A and B are true   b) A is true and B is false

    c) A is false and B is true   d) Both A and B are false

17. **Statement A:** If 6 note books cost Rs.x then the number of note books that can be bought for Rs.8 is $\dfrac{x}{48}$.

    Statement B: The value of $100 - 4[25 - \{5 + (12 - 9)\}]$ is -32.

    a) Both A and B are true   b) A is true and B is false

    c) A is false and B is true   d) Both A and B are false

18. **Statement A:** If A : B = 5 : 7 and B : C = 6 : 11 then A : B : C is 30 : 42 : 77

    Statement B: If a and b are coprimes then their LCM is ab

    a) Both A and B are true   b) A is true and B is false

    c) A is false and B is true   d) Both A and B are false

19. **Statement A:** If the sum of three different prime numbers is an even number then the smallest of the three number is 2.

    Statement B: The area of the shaded region in the below figure is 81 sq.m

    a)Both A and B are true   b) A is true and B is false

    c) A is false and B is true   d) Both A and B are false

20. **Statement A:** The expanded form of 2.06 is $\left(2 \times 10\right) + \left(6 \times \dfrac{1}{100}\right)$

    Statement B: If the prime numbers from 23 to 47 are listed as 23, x, 31, 37, 41, y, 47 then x + y is 72.

    a) Both A and B are true   b) A is true and B is false

    c) A is false and B is true   d) Both A and B are false

21. **Statement A:** If the mid points of the sides of a square are joined as shown then the fraction of the original square shaded is $\dfrac{1}{4}$.

    Statement B: The perimeter and area of a square are numerically equal, then the numerical value of measure of the side is 4 units.

    a) Both A and B are true   b) A is true and B is false

    c) A is false and B is true   d) Both A and B are false

22. **Statement A:** The algebraic expression for the statement "6 less than the quotient of x and 3 equals 2" is $\dfrac{3}{x} - 6 = 2$

    Statement B: The solution of $x - \dfrac{3}{2} = 1\dfrac{1}{2}$ is $\dfrac{3}{2}$

    a) Both A and B are true   b) A is true and B is false

    c) A is false and B is true   d) Both A and B are false

23. **Statement A:** If 24ab – 10b – 18a subtracted from 30ab + 12b + 14a then the result is

    6ab +22b + 32a

    Statement B: The value of the expression $n^3 + 5n^2 + 5n - 2$; when n = -2 is 0.

    a) Both A and B are true   b) A is true and B is false

    c) A is false and B is true   d) Both A and B are false

24. **Statement A:** The cost of fencing a rectangular park of length 250m and breadth 175m at the rate of Rs.12 per metre is Rs.12,000

    Statement B: The perimeter of a regular pentagon with each side measuring 3cm is 15cm

    a) Both A and B are true   b) A is true and B is false

    c) A is false and B is true   d) Both A and B are false

25. **Statement A:** The ratios 15cm to 2m and 10sec to 3 minutes form a proportion

    Statement B: If the cost of 6 cans of juice is Rs.210 then the cost of 4 cans of juice is Rs.140

    a) Both A and B are true   b) A is true and B is false

    c) A is false and B is true   d) Both A and B are false

Read the following paragraph and answer the questions from 26 to 30:

There are 1800 students in a school. 800 choose football, 750 choose basket ball and the remaining did not choose any of the games. A student can choose only one game.

26. The ratio of the number of students who chose atleast one game to the total number of students in the school is ………

    a) 750 : 1800   b) 36 : 31   c) 31 : 36   d) 800 : 1800

27. The ratio of the number of students who chose basket ball to the number of students who chose foot ball is ………

    a) 5 : 16   b) 16 : 15   c) 16 : 3   d) 15 : 16

28. The ratio of number of students who choose foot ball and who did not choose any game is …

    a) 16 : 5   b) 16 : 20   c) 16 : 15   d) 800 : 250

29. The ratio of total number of students to the number of students who choose basket ball is …

    a) 1 : 5   b) 12 : 5   c) 5 : 12   d) 12 : 1

30. Which of the following ratios represents the ratio of number of students who chose basket ball to the number of students who chose atleast one game?

    a) 15 : 51   b) 31: 15   c) 15 : 31   d) 13 : 15

Read the following paragraph and answer the questions from 31 to 32:

The weights of Raj and Suraj are 69.725kg and 69.45kg respectively.

31. What is their total weight in kg?

    a) 193.715   b) 139.715   c) 139.175   d) 139.751

32. By how many kg does Raj weigh more than that of Suraj ?

    a) 0.752   b) 0.725   c) 0.527   d) 0.275

Read the following paragraph and answer the questions from 33 to 36:

On a certain day, the temperatures recorded in a few cities are given in the table:

33. In which city was the temperature maximum?

    a) Darjeeling   b) Ooty

    c) Kashmir   d) Hyderabad

Place	Temperature
Hyderabad	35^0C
Ooty	17^0C
Kashmir	-2^0C
Darjeeling	-5^0C
Shimla	-4^0C

34. In which city was the temperature least?

    a) Ooty   b) Darjeeling

    c) Shimla   d) Kashmir

35. What is the difference of temperatures in Ooty and Shimla?

    a) 21^0C   b) 13^0C   c) -13^0C   d) -21^0C

36. Which of the following gives the correct order of the cities in the increasing order of their temperatures?

    a) Ooty, Hyderabad, Darjeeling, Kashmir   b) Ooty, Hyderabad, Kashmir, Darjeeling

    c) Darjeeling, Kashmir, Ooty, Hyderabad   d) Ooty, Hyderabad, Kashmir, Shimla

37. **Assertion (A):** The value of x in $12 : 3 : : x : 1$ is 4.

    Reason (R) : If $a : b = c : d$ then a, b, c, d are said to be in proportion and $ad = bc$

    a) Both A and R are true and R is correct explanation of A

    b) Both A and R are true and R is not correct explanation of A.

    c) A is true and R is false   d) A is false and R is true

38. **Assertion (A):** The area of a rectangle is 630 sqcm and its breadth is 15cm then its length is 55cm

    Reason (R): The area of a rectangle is given by A = length x breadth

    a) Both A and R are true and R is correct explanation of A

    b) Both A and R are true and R is not correct explanation of A.

    c) A is true and R is false   d) A is false and R is true.

39. If x and y vary directly and k is a constant then ....

    a)xy = k   b) $\dfrac{x}{y} = k$ c) x + y = k   d) None

40. The predecessor of 80808080 is........

    a) 80808 99   b) 80808081   c) 80808080   d) 80808079

PHYSICS

41. The direction of conventional current in a circuit is from

    a) Negative terminal to positive terminal of a cell, outside the cell

    b) Positive terminal to negative terminal of a cell, outside the cell

    c) Negative terminal to positive terminal of a cell, inside of the cell

    d) Both b and c

42. emf of a cell is a

    a) Force   b) Work   c) Current   d) None

43. A good conductor of electricity has,

    a) More number of free electrons   b) Zero number of free electrons

    c) More number of free protons   d) more number of free neutrons

44. In a conductor 4C of charge flows for 2 second then the value of electric current will be

    a) 4V   b) 4A   c) 2A   d) 2V

45. In which of the following, maximum current can be drawn from the cell.

a) E, r

b) R, E, r

c) E, r

d) All of these

46. If a magnet of magnetic moment M and pole strength m is divided into two equal parts, then the magnetic moment of each part will be

a) M b) M/2 c) M/4 d) 2M

47. Which of the following is the most suitable material for making a permanent magnet

a) Steel b) Soft iron c) Copper d) Nickel

48. Demagnetisation of magnets can be done by

a) Rough handling b) Heating

c) Magnetising in the opposite direction d) All the above

49. The ultimate individual unit of magnetism in any magnet is called

a) North pole b) South pole c) Dipole d) Quadrupole

50. Match the following:

A. Heat energy 1. Electric motor
B. Sound energy 2. Electric bell
C. Magnetic energy 3. Radio
D. Light energy 4. Electric Iron
E. Mechanical energy 5. Bulb

	A	B	C	D	E		A	B	C	D	E
a)	4	3	2	5	1	b)	5	3	2	1	4
c)	3	2	1	4	5	d)	2	3	1	5	4

51. Match the following

A. Lodestone 1. Compass needle (or) magnetic compass
B. Electromagnets 2. Protect magnet which is not in use
C. Keepers 3. Demagnetize the magnet
D. Sailors and navigator 4. Electric Bell
E. Hammering 5. Natural magnet

	A	B	C	D	E		A	B	C	D	E
a)	5	2	1	3	4	b)	5	1	4	3	2
c)	5	4	2	1	3	d)	4	5	2	1	3

52. Metals have

a) Zero resistance b) High resistance c) Low resistance d) Infinite resistance

53. **Assertion (A):** A person touching a high power line gets stuck with the line

Reason (R): The current carrying wires attract the man towards them

a) Both A and R are true and R is correct explanation of A

b) Both A and R are true and R is not correct explanation of A.

c) A is true and R is false d) A is false and R is true

54. When the length and area of cross – section both are doubled then the resistance of the wire will
   a) become half
   b) be doubled
   c) become four times
   d) remain the same

55. **Assertion (A):**Diamagnetic materials can exhibit magnetism

   Reason (R): Diamagnetic materials have permanent magnetic dipole moment
   a) Both A and R are true and R is correct explanation of A
   b) Both A and R are true and R is not correct explanation of A.
   c) A is true and R is false
   d) A is false and R is true

56. A permanent magnet
   a) Attracts all substances
   b) Attracts only magnetic substances
   c) Repels magnetic substances
   d) All the above

57. Current is a
   a) Vector
   b) Tensor
   c) Scalar
   d) All

58. An example of a diamagnetic substance is
   a) Nickel
   b) Cobalt
   c) Iron
   d) Copper

59. Device used to measure the amount of current
   a) Ammeter
   b) Voltmeter
   c) Electroscope
   d) Potentiometer

60. When an electrical appliance is switched on, it responds almost immediately, because
   a) The electrons in the connecting wires move with the speed of light
   b) The electrical signal is carried by electromagnetic waves moving with the speed of light
   c) The electrons move with speed which is close to, but less than speed of light
   d) The electrons are stagnant

CHEMISTRY

61. Generally the percentage of water in a human body is
   a) 90%
   b) 50%
   c) 70%
   d) 80%

62. The process of collecting rain water in huge pits is called:
   a) Storing of water
   b) Conservation of water
   c) Rainwater harvesting
   d) Transportation of water

63. Water can exist in all the three states at a temperature of
   a) 0^0C
   b) 100^0C
   c) 25^0C(Room temperature)
   d) At all temperatures

64. A substance used for removal of harmful bacteria in water is
   a) Lime
   b) Potassium dichromate
   c) Chlorine
   d) All the above

65. The alternate evaporation and condensation of water builts a natural balance. It is called ....
   a) Condensation cycle
   b) Water cycle
   c) Evaporation cycle
   d) All

66. The atmosphere extends to an altitude of
   a) 200km
   b) 500km
   c) 320km
   d) 600km

67. Which of the following will result in a chemical change?
   a) Mixing of milk and sugar
   b) Mixing of milk and curd
   c) Mixing of milk and water
   d) Mixing of water and salad

68. Which of the following change is wrongly identified?

   a) Eating of dosa in breakfast – Chemical change

   b) Cutting of wood to make furniture - Chemical change

   c) Making fruit custard from milk – Chemical change

   d) Baking a cake - Chemical change

69. The ratio of oxygen and nitrogen in the atmosphere respectively is

   a) 2 : 4 b) 4 : 2 c) 4 : 1 d) 1 : 4

70. Aquatic animals and plants:

   a) Breath through the water b) Have to come out of water to breathe

   c) Use the oxygen dissolved in water to breathe d) Do not breathe at all

71. The gas used in filling weather balloons is

   a) Oxygen b) Helium c) Nitrogen d) Water vapour

72. One fifth part of air is

   a) Nitrogen b) Hydrogen c) Helium d) Oxygen

73. Which gas is released during respiration?

   a) NO c) CO c) CO_2 d) SO_2

74. Which of the following are transparent materials?

   a) Glycerine b) Water c) Milk d) Both 'a' and 'b'

75. Select the one that is different from others

   a) PVC pipe b) GI pipe c) Plastic basket d) Plastic toy

76. Generally metals are shining but some of them lose their shine and appear dull when exposed to the atmosphere. It is due to the

   a) action of air on their surface b) action of water

   c) Both (a) and (b) are correct d) Neither (a) nor (b) are correct

77. NO_2 in air can cause

   a) Respiratory problem b) Acid rain

   c) Better living conditions d) All the above

78. Which of the following are not green house gases

   a) CO_2 and CH_4 b) Ozone and water vapour

   c) Methane and water vapour d) NH_3 and CO

79. Liquid oxygen is .... in colour.

   a) Yellow b) Pale green c) Pale blue d) Brown

80. The formula of rust is

   a) Fe_2O_3 b) $Fe_2O_3.xH_2O$ c) $FeO.2H_2O$ d) Fe_3O_4

BIOLOGY

81. In some cities, municipalities provide separate dust bins for collecting two kinds of garbage. Usually one is coloured green and the other blue. How do you segregate the waste given below into two bins? Which one can be used as the compost?

   Husk(1), Tea leaves (2) , broken glass (3), Vegetable peels(4), Old Shoes(5), Nails (6)

	Green Bin	Blue bin	Compost
a)	1, 2, 4, 6	3, 5	Green bin
b)	1, 3, 4, 5	2, 6	Blue bin
c)	1, 2, 4	3, 5, 6	Blue bin
d)	1, 2, 4	3, 5, 6	Green bin

82. The following diagram represents the setup for vermi composting
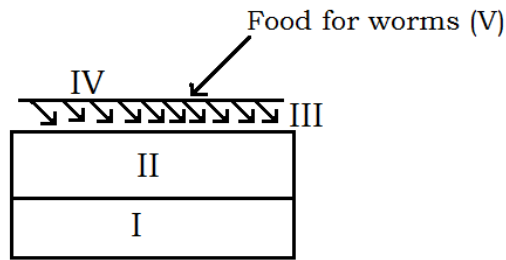
I, II, III, IV and V in the above set up are

	I	II	III	IV	V
a	Sand (1-2 cm thick)	Chicken mesh	Sprinkle water	Earth worms	Pickles, oil
b	Chicken mesh	Sand (1-2cm thick)	Sprinkle water	Earth worms	Vegetable waste
c	Chicken mesh	Vegetable waste	Sprinkle water	Earth worms	Coffee/tea remains
d	Chicken mesh	Earth worms	Sprinkle water	Sand (1-2 cm thick)	Coffee/tea remains

83. Which among the following is **correct** regarding earthworms?

I. They are known as farmer's friends as they are useful in control of weeds

II. They do not have teeth, therefore, gizzard helps in grinding of their food.

III. They can reduce the cost of buying expensive fertilizers

a) Only I   b) Both I & II   c) Both II & III   d) I, II, III

84. Endoplasmic reticulum 'does not' perform

a)Manufacture of fat   b) Digestion of foreign materials

c) Biogenesis of membranes   d) Detoxification of toxins

85. The diagram shows a single celled green alga. Its chloroplast and several other components are labelled

A. thylakoid membrane
B. stroma of chloroplast
C. cytosol
D. plasma membrane
E. cell wall
F. flagellum
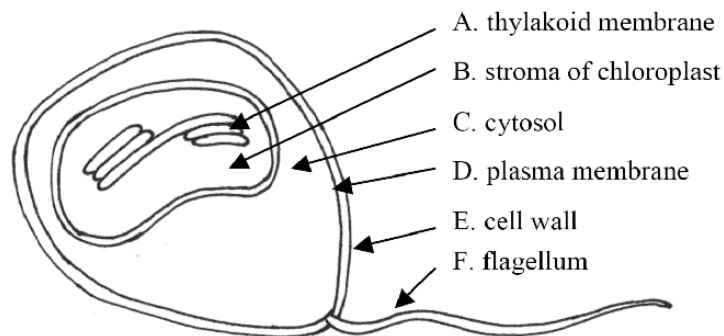
The components that consist the following are

1) Photosynthetic pigments

2) Starch

3) Ribosomes

4) Macromolecular polymers that prevent the cell from bursting

Now match the components with the structured mentioned above

	1	2	3	4
a)	A	B	B/C	E
b)	B	A	A/C	D
c)	A	E	C	F
d)	A	B	B	F

86. The organelles of eukaryotic cells, involved in energy conversions, are
    a) Ribosomes, Mitochondria
    b) Mitochondria and Chloroplasts
    c) Chloroplasts only
    d) Mitochondria only

87. The figure shows an experiment with a membrane bag in a beaker with diluted iodine solution (orange – brown).
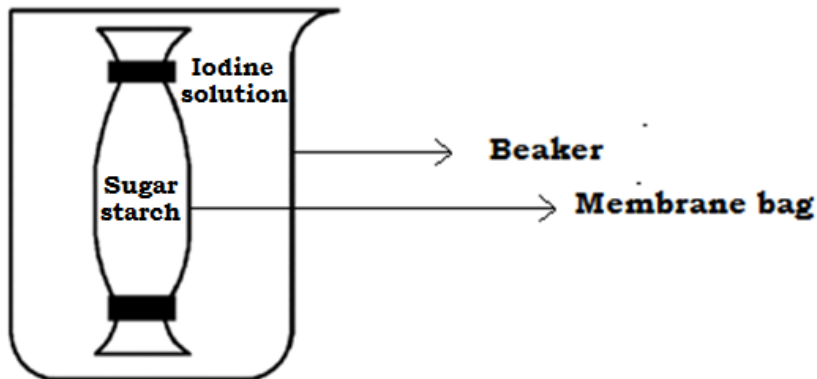
Which colour would you expect in the beaker and the membrane bag after several hours?

	In the Beaker	in the membrane bag
a)	Orange – brown	Orange – brown
b)	Colourless	Colourless
c)	Blue – black	Blue – black
d)	Orange – Brown	Blue – black

88. Mismatched combination(s) in the following is/are

Column –A	Column – B
I. Lysosome	Digestive enzymes
II. Nucleus	Genetic information
III. Plasma membrane	Nucleic acids (DNA/RNA)

    a) I only   b) II only   c) III only   d) All of the above

89. There are different ways for getting rid of wastes in our surroundings. Suggest the best ways of treating the following wastes
    P= Plastics, Q= Medical waste, R= Agricultural waste
    a) P→ Burning; Q →Recycle; R → Composting
    b) P→ Recycle; Q → Burning; R → Composting
    c) P→ Reuse; Q →Burning; R → Burning
    d) P→ Recycle; Q →Reuse; R → Composting

90. Which of the following is not a proper waste management practice?
    a) Using fruit wastes in vermi composting
    b) Using paper and rice husk for making articles
    c) Burning dried leaves and broken plastic toys
    d) Carrying a jute bag while shopping

91. The locomotory structures in majority of insects
    a) 3 pairs of legs and 3 pairs of wings
    b) 2 pairs of legs and 2 pairs of wings
    c) 3 pairs of legs and 2 pairs of wings
    d) 2 pairs of legs and 3 pairs of wings

92. The elbow joint is similar to this joint in its structure and movement
    a) Joint between upper jaw and rest of the head
    b) Joint between the bones of skull
    c) Knee joint   d) Joint between the vertebrae in back bone

93. Study the following statements

I. snakes move forward very fast and in a straight line

II. The streamlined body of a fish helps in easy movements in water

III. Tiny bristles (setae) present under the body help in providing the grip on the ground during its movements in earthworm

IV. The shell helps in moving from place to place in snails

V. A muscle can push and pull during the body movements

How many of the above statements are true and correct?

a) Two only   b) Three only   c) Four only   d) All are correct

94. **Assertion (A):** Locomotion is a movement but all movements are not locomotions.

Reason (R): In locomotion, the organism moves from one place to the other for the sake of food/shelter/reproduction/protection but all movements may not result in moving place to place

a) Both A and R are correct and R is the correct explanation of A

b) Both A and R are correct and R is not the explanation of A

c) A is true but R is false   d) A is false & R is true

95. Three plants F, G and H of different habitats and their adaptations(r, s, t, u, v and w) are tabulated below where

r= well developed root system

s= well developed shoot system

t= reduced rate of transpiration

u= sunken stomata (leaf pores)

v= reduced shoot system

w= reduced root system

Plant	Adaptations
F	r & s
G	r & v
H	s & w

Which among these is a xerophyte (desert plant) and which another adaptation can be noticed in it, in addition to the existing one?

a) F → u   b) G → t   c) H → u   d) F → t

96. Observe the following events noticed during various metabolic activities of green plants

P = Oxygen is released, mostly during the day time

Q = pollen grains are transferred during the day/ night time

R = Carbon-di-oxide is released both during the day and night time

S = water vapour is released mostly during the day time

Pick out the correct option from the below

	Photosynthesis	Transpiration	Reproduction	Respiration
a	P	Q	R	S
b	Q	R	S	P
c	S	P	P	Q
d	P	S	Q	R

97. Following are the characteristic features observed in birds

    (i) Jaws are modified into beak or bill

    (ii) Breast bones are modified to hold the flight muscles

    (iii) Web is seen between the toes of hind limbs

    (iv) Fore limbs are modified into wings

    (v) Hind limbs have scales and toes are with claws.

    Which of the above, do you feel, best suited for flying?

    a) i & v　　　　　　b) ii & iv　　　　　c) iii & v　　　　　d)i & iii

98. Find the aquatic organism which has no gills but possesses blow holes which allow it to breath

    a) Prawn　　　　　b) Fish　　　　　c) Sea gull　　　　d) Dolphin

99. Which adaptation of deer does not help it to protect itself from its predators?

    a) Long ears　　　　　　　　　　b) Eyes located on sides of head

    c) Speed running　　　　　　　　d) Strong teeth

100. Which of the following can be quoted as the most defining property of living things, applicable to all the organisms, without any exception?

    a) Reproduction　　　　　　　　b) Locomotion

    c) Growth　　　　　　　　　　　d) Response to the external stimuli

                                    * * * * *

VISTO - 2015 - 16
SEASON - II ANSWER KEY
TO
CLASS - VI

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