

Pre Nurture and Career Foundation Division

CLASS - VI

ANSWER KEY

Que.	1	2	3	4	5	6	7	8	9	10
Ans.	2	1	1	4	4	3	1	3	4	1
Que.	11	12	13	14	15	16	17	18	19	20
Ans.	4	1	3	2	2	1	4	3	1	4
Que.	21	22	23	24	25	26	27	28	29	30
Ans.	4	2	2	3	3	2	4	2	2	3
Que.	31	32	33	34	35	36	37	38	39	40
Ans.	4	2	3	2	1	2	3	3	1	2
Que.	41	42	43	44	45	46	47	48	49	50
Ans.	1	3	1	1	3	1	3	2	4	2
Que.	51	52	53	54	55	56	57	58	59	60
Ans.	4	4	3	3	1	4	2	3	3	2
Que.	61	62	63	64	65	66	67	68	69	70
Ans.	2	3	3	4	1	1	4	1	2	3
Que.	71	72	73	74	75	76	77	78	79	80
Ans.	4	3	3	3	1	3	1	1	4	2
Que.	81	82	83	84	85	86	87	88	89	90
Ans.	2	2	4	3	4	3	2	2	3	2
Que.	91	92	93	94	95	96	97	98	99	100
Ans.	3	2	4	3	4	3	3	3	2	3
Que.	101	102	103	104	105	106	107	108	109	110
Ans.	1	3	3	3	4	4	1	4	1	3
Que.	111	112	113	114	115	116	117	118	119	120
Ans.	2	2	3	1	3	3	3	4	2	1

HINT – SHEET

26. (2)

Sol. Lemon juice (acid) reacts with washing soda (base) and liberates carbon dioxide gas i.e., a new substance is formed. Thus, it is a chemical change. Whereas, addition of salt in lemon juice is a physical change as only salt gets dissolved in lemon juice, no chemical reaction takes place

27. (4)

Sol. Metal (X), iron reacts with blue coloured solution of copper sulphate and forms a "new substance (green coloured solution of iron sulphate) and cannot be converted back to the original solution. Thus, it is an irreversible and chemical change.

28. (2)

Sol. All these changes occur again and again after fixed intervals of time, hence are periodic changes.

29. (2)

Sol. Burning the pieces of paper is chemical change.

30. (3)

Sol. Process 1 is a reversible, physical change while process 2 is an irreversible, chemical change

31. (4)

Sol. Periodic changes are the changes which keep repeating themselves after a regular period of time. So, low and high tides and opening of a morning glory flower are the examples of periodic changes.

33. (3)

Sol. Irreversible change

34. (2)

Sol. It is permanent change as rolled out roti cannot be obtained from baked one.

35. (1)

Sol. Exothermic change is accompanied by release of energy in the form of heat and light.

36. (2)

Sol. Permanent change, change in composition and formation of new substance all these are characteristics of a chemical changes while reversibility is not a characteristic of chemical changes.

37. (3)

Sol. Burning is a chemical change while all other are physical changes.

38. (3)

Sol. The eruption of volcanoes is a natural, non- periodic change.

39. (1)

Sol. (i), (ii), (iii) and (iv) are irreversible changes

40. (2)

Sol. Cotton fibres is separated by ginning.

41. (1)

Sol. Freshly sand-papered surface of copper have metallic lustre.

42. (3)

Sol. Wind is essential to perform winnowing activity.

43. (1)

Sol. We cannot use seawater because sea water is salty

51. (4)

$$1B = 1,000,000,000$$

$$1 \text{ Lac} = 1,00,000$$

$$\therefore 1B = \frac{1000000000}{100000}$$

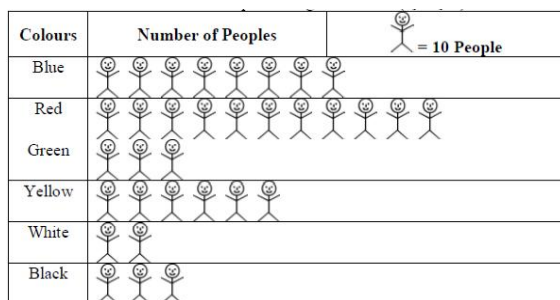
$$= 10000 \text{ Lakh}$$

52. (4)

L cannot be repeated.

57. (2) $\frac{171}{500}$

The colours of fridges preferred by people living in a locality are shown by the following pictograph.

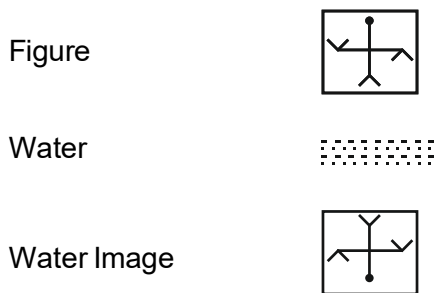


76. (c) Carbohydrates, Explanation: The food components present in sugar is carbohydrates.
77. (a) Anaemia, Explanation: The disease caused by the deficiency of iron is anaemia.
78. (a) Marasmus, Explanation: Deficiency of protein and carbohydrates in infants leads to marasmus.
79. (d) All of these, Explanation: We know that food is essential for all living organisms and it provides energy to perform various functions, helps in growth and development. Although, it protects our body from various diseases.
80. (b) Proteins, Explanation: All leguminous (pulses) plant are rich source of proteins.
81. (b) Ingredients, Explanation: Materials required to prepare a food item are called ingredients.
82. (b) Tulsi, Explanation: Leaves of the Wheat, Maize and Grasses have parallel venation. Tulsi plant has reticulate venation in their leaves.
83. (d) Transpiration, Explanation: Water comes out of the leaves in the form of vapour by a process called transpiration.
84. (c) Leaves, Explanation: Leaves are not a part of flower.
85. (d) Tree, Explanation: The presence of hard and thick stems is a feature of tree.

86. (c) Femur, Explanation: Generally, in human body radius, ulna, humerus are found in upper limb but femur is found in thigh or upper leg.
87. (b) Neck, Explanation: The pivot joints occur in our skeleton at neck. A pivot joint exists between our skull and the top vertebra.
88. (b) Skull and lower jaw, Explanation: Skull and lower jaw have the hinge joint between them.
89. (c) Both biotic and abiotic components, Explanation: Environment consists of both biotic and abiotic components.
90. (b) Habitat, Explanation: The place where living beings live is called their habitat.
91. (c) Do not need food, Explanation: Living things require food for energy.
92. (b) Ocean, Explanation: Ocean is the example of aquatic habitat.
93. (d) Phototropism, Explanation: Bending of a stem towards sunlight is called phototropism.
94. (c) Composting, Explanation: Composting is not a method of garbage disposal.
95. (d) Red worms, Explanation: Red worms are used for making vermicompost.
96. (c) Used in making compost, Explanation: Leaves falling from trees should be used in making compost.
97. (c) Landfill areas, Explanation: Garbage from cities are dumped at landfill areas.
98. (c) Frog, Explanation: Frog can live on land as well as in water.
99. (b) Hair, Explanation: Yak has hairs on their bodies to keep them warm.
100. (c) Snail, Explanation: Snail moves with just one large, disc-shaped muscular foot.

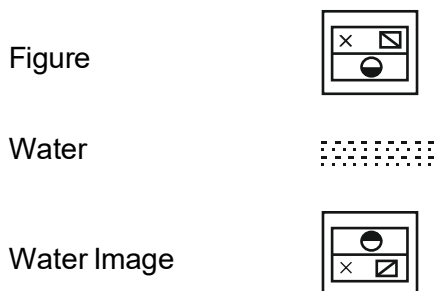
101. (1)

Sol. The figure in option (2) represents the correct water image of figure (1) as shown below.



102. 3

Sol. The figure in option (3) represents the correct water image of figure (1) as shown below.

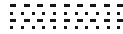


103. 3

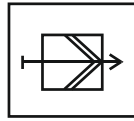
Sol. The figure in option (3) represents the correct water image of figure (1) as shown below.



Water



Water Image



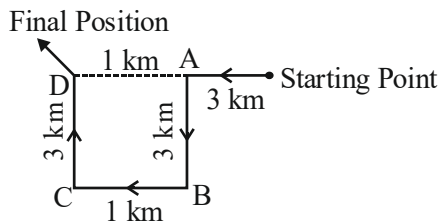
104. 3

Sol. Here, the mirror is placed vertically at AB on the RHS of the question figure. Hence, only the figure given in answer figure (3) would be obtained as the correct mirror image.

105. 4

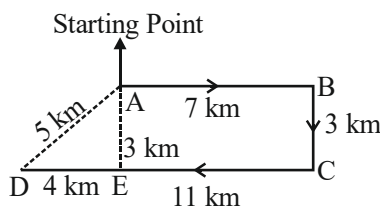
Sol. Here, the mirror is placed vertically at AB on the RHS of the question figure. Hence, only the figure given in answer figure (4) would be obtained as the correct mirror image.

106. (4)



Required Distance = 3 + 1 = 4 km.

107. (1)



$$AD = \sqrt{3^2 + 4^2}$$

$$= \sqrt{9 + 16}$$

$$= \sqrt{25}$$

$$= 5 \text{ km.}$$

108. (4)

$$\begin{array}{cccccc}
 1 & 121 & 441 & 961 & 1681 & \boxed{2601} \\
 \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\
 1^2 & 11^2 & 21^2 & 31^2 & 41^2 & 51^2
 \end{array}$$

109. (1)

$$\begin{array}{cccccc}
 31 & 35 & 44 & 60 & 85 & \boxed{121} \\
 \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \\
 +2^2 & +3^2 & +4^2 & +5^2 & +6^2 &
 \end{array}$$

110. (3)

$$\begin{array}{cccccc}
 8 & 15 & 36 & 99 & 288 & 855 \\
 \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \\
 +7 & +21 & +63 & +189 & +567 & \\
 \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & & \\
 \times 3 & \times 3 & \times 3 & \times 3 & &
 \end{array}$$

113. (3)

Sol. We observe that

$$2^{\text{nd}} \text{ term} = 3 + 2 = 5$$

$$3^{\text{rd}} \text{ term} = 5 \times 2 = 10$$

$$4^{\text{th}} \text{ term} = 10 + 2 = 12$$

$$5^{\text{th}} \text{ term} = 12 \times 2 = 24$$

Clearly the pattern is : $+2, \times 2 + 2, \times 2, +2, \times 2, +2$

$$\text{So, } 8^{\text{th}} \text{ (required) term} = 52 + 2 = 54$$

Hence, the answer is (3).

114. (1)

Sol. First numeral - 2, 7, 14, 23, 34 (+ 5, + 7, + 9, + 11..)

Second letter - Z, Y, X, W, V (decreases by 1 each time)

Third numeral - 5, 7, 9, 11, 13 (increases by 2 each time)

So the missing term is 47 U 15.

Hence, the answer is (1).

115. (3)

Sol. First letter- decreases by 2 each time

Second numeral- square of 12, 11, 10, 9, 8..

So the missing term is O -64.

Hence, the answer is (3).

116. (3)

The Position of letter is written from left to right. So the position value of L is 12 and N is 14.

119. (2)

Sol. $27 - 10 = 17$

17 is position for Q from left