MACRO VISION ACADEMY, BURHANPUR

Sample Entrance Test papers(2017 – 18)

Class: VII   **Time: 2 hrs.**   **M.M : 60**

English (15 marks)

Q.1 **Read the following passage carefully and answer the following questions.**   **5**

Butterflies are some of the most interesting insects on the planet Earth. There are more than seventeen thousand different kinds of butterflies! Butterflies come in all shapes and sizes.

Butterflies go through four main stages of life. The first stage is the egg stage followed by the larva stage. As a larva, or caterpillar, the future butterfly eats as much as possible. As it grows, it sheds it outer skin, or exoskeleton. This may happen four or five times. After a few weeks, the caterpillar enters the next stage of its life, the chrysalis stage. In the chrysalis, the caterpillar will liquefy into a soup of living cells. Then, it will reorganize into a butterfly and the metamorphosis is complete. In later parts of the chrysalis stage, you can see the forming butterfly through the chrysalis.

When the butterfly emerges from the chrysalis, it pumps its wings to send blood through them so that it can fly. Most butterflies only live a couple of weeks, just enough time to drink flower nectar and to mate. Some, like the Monarch Butterfly, however, may live many months.

1. Which statement is true?
   (a)   There are less than a thousand different kinds of butterflies in the world.
   (b)   There is only one kind of butterfly in the world.
   (c)   There are about a thousand different kinds of butterflies in the world.
   (d)   There are more than a thousand different kinds of butterflies in the world.
2. What is the second stage of life for a butterfly?
   (a) Butterfly   (b) chrysalis   (c) egg   (d) larva
3. What is the third stage of life for a butterfly?
   (a) Chrysalis   (b) larva   (c) egg   (d) butterfly
4. In what stage does the metamorphosis happen?
   (a) caterpillar   (b) chrysalis   (c) egg   (d) butterfly
5. How many stages of life does a butterfly go through ?

Q.2 **Imagine you are Nimit Joshi. Write a letter to your friend congratulating him for winning the state level table tennis championship.**   **3**

Q.3 **Write whether the sentences are 'Active' or 'Passive'.**   **2**
1. The minister inaugurated the exhibition.
2. All the milk was drunk by the cat.
3. I was struck by a stone on the head.

4. His command was promptly obeyed.

Q.4 **Rearrange the given words into meaningful sentences.** 1

1. ill/Mrs. Sharma/very/is.

2. wins/slow/the/race/and/steady.

Q.5 **Fill in the blanks with correct articles (a, an, the).** 2

i. She visited …..Taj last month.

ii. Rita found………..one-rupee coin

iii. I met………European and ………… American in the fair.

Q.6 **Choose the correct forms of the verbs from the options.** 2

1. Reena ……just decided to join the picnic.

(a)have   (b) has   (c) having

2. Water ……..at 100 C.

(a) Boiled   (b) boils   (c) boil

3. This pair of shoes………fit for me.

(a) is   (b) am   (c) are

4. We …………song in the competition tomorrow.

(a) has sung   (b) will sing   (c) had sung

Mathematics (25 marks)

Q.1 **Choose the correct answer:** 5

1) 7.19 lies between the whole numbers-

(a) 7 and 9   (b) 7 and 1   (c) 7 and 8   (d) none of these

2) The perimeter of square of side 6 cm is :

(a) 12 cm   (b) 18 cm   (c) 24 cm   (d) 20 cm

3) A triangle whose all sides are unequal is called-

(a) equilateral triangle   (b) scalene triangle

(c) isosceles triangle   (d) None of these

4) 1 sq. cm is equal to -

(a) 100 sq. mm   (b) 10 sq. mm   (c) $\frac{1}{10}$ mm   (d) None of these

5. A circle of diameter d cm has a radius of length :

(a) d/2 cm   (b) 2d cm   (c) d/4 cm   (d) 4d cm

Q.2 **Solve the following:** 8

1. Weight of 72 bags is 8 kg. What is the weight of 90 such bags

2. Write a fraction equivalent to :

(i) $\frac{3}{5}$ with denominator 20   (ii) $\frac{6}{7}$ with numerator 18

3. A piece of $5\frac{3}{4}$ m long , broke two pieces. One piece is $\frac{7}{8}$ metre long. How long is the other piece?

4. Solve the equation: 2x+5=7.

Q:3 Solve the following: 12

1. Sweety runs around a square park of side 75 m. Bulbul runs around a rectangular park with length 60 m and 45 m. Who covers more distance and by how much ?

2. A vendor supplies 32 litres of milk to a hotel in the morning and 68 litres of milk in the evening. If the milk cost `15 per litres, how much money is due to the vendor per day.

3. Hiral lal wants to cover the floor of a hall 5 m wide and 6 m long by squared tiles. If each square tile is of side 20 cm, then find the number of tiles required to cover the floor of the hall.

4. Two angles of a triangle are in the ratios 2 : 3 and third angle is 60°. Find the other two angles of the triangle.

Science (20 marks)

Q.1   Choose the correct answer: 5

1. During evaporation , water changes its state from -
   (a) solid to liquid   (b) liquid to solid   (c) gas to liquid   (d) liquid to gas

2. Among the following materials, which is a magnetic materials?
   (a) Iron   (b) Carbon   (c) Aluminium   (d) zinc

3. The needle like leaves of mountains trees help in :
   (a) absorption of water   (b) making the tress look attractive
   (c) sliding off the snow   (d) absorbing sunlight

5. Joints in the skull are :
   (a) free movable   (b) slightly movable (c) immovable   (d) none of these

6. Which of the following is a conductor of electric current ?
   (a) wooden toy   (b) plastic pen   (c) iron nail   (d) rubber eraser

Q.2   Give reasons for the followings : (any 1)   3

1. We know that living organisms can move. Clouds also move but we say it is a non-living things why?

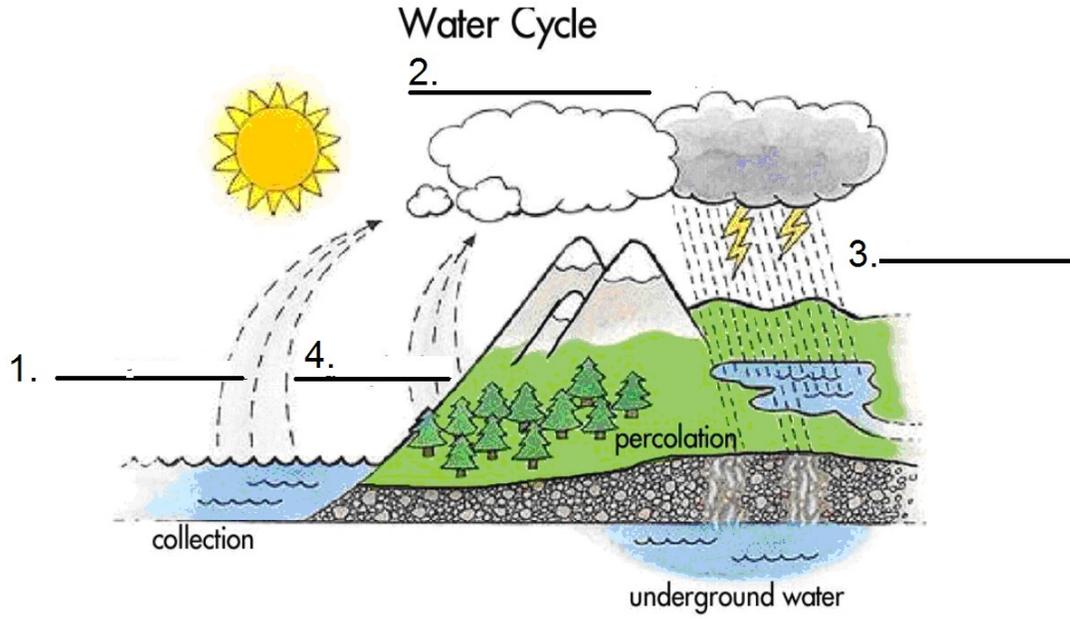2. Why railway tracks are laid with gaps in between them?

Q.3   Answer the following questions .   5

1. How are reversible changes difference from irreversible changes?

2. What are biotic and abiotic components?

3. What are conductors and insulators in electric current? Give examples.

4. What is vermi composting?

5. Define water cycle.

Q.4   Label the given diagram of water cycle .   **2**

Water Cycle

2. _____

1. _____   4. _____   3. _____

percolation

collection

underground water

Hindi (5 marks)

प्रश्न –1 अपने प्रधानाचार्य को पिकनिक पर जाने हेतु प्रार्थना पत्र लिखिए।   5

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