MACRO VISION ACADEMY, BURHANPUR
Sample Entrance Test (2018-19)

Class: VIII   **Time: 1:30 Hrs.**   **M.M.: 60**

Name: _____   City: _____

Father's name: _____

English (15 Marks)

Q.1 **Read the story carefully and answer the questions that follow:**   **5**

Climate Change

Climate change will have serious implications as numerous adverse impacts are expected in terms of access to clean water, food and ecosystem resources. By 2020, it is feared that in some African countries yields from rain fed agriculture could be reduced by up to 50%. Climate charge is also likely to lead to some irreversible impacts on bio-diversity. However, it is within the reach of human society to meet these threats. We have to adapt to the climate change. It requires investment in storm protection and water supply infrastructures as well as community health services. Bringing changes in lifestyle is an important part of mitigation measures. Greater co-operative efforts are required by both developed and developing nations to stop emission of greenhouse gases. The youth of today have a huge responsibility towards creating a bright future and they obviously have a stake in it. They must pursue knowledge by which economic progress can take place without changing the environment.

Choose the most appropriate option :

1. The production of grains in Africa will remain only 50% in 2O2O, due to:
  (A) access to clean water   **(B)** climate change
  (C) human society   **(D)** co-operative efforts

2.We can face the challenges of climate change by:
  (A) co-operative efforts   **(B)** adapting to changes
  (C) Changing our life-style   **(D)** all the above

3. A lot of investment is required in
  (A)water supply infrastructure   **(B)** community health services
  (C) storm protection techniques   **(D)** all the above

4.Mitigate means:
  (A) to solve   **(B)** to increase   **(C)** to reduce   **(D)** to understand

5.Which of the following is not affected due to climate changes?
  (A) food resources   **(B)** ecosystem resources
  (C) water resources   **(D)** none of the above

Q.2. Write an application to the Commissioner of Municipal Corporation requesting   **3**
him/her to immediate steps against the stray animals in your locality.
                    OR
        Describe a historical place that you have visited.

Q.3 Write the verbs in brackets into the passive forms.   **2**
Example:
(i)   She _____ (punish) by us.
         She <u>shall be</u> <u>punished</u> by us.
1. The lion has _____ (kill).
2. My laptop is _____(be, use)
3. Tea was_____ (sell) by the grocer.
4. All assignments have_____ (do) by them.

Q.4 Fill in the blanks as per asked in the brackets.   **2**
1. Students _____ sums. (Simple Past Tense)
2. They _____ (play) chess. (Present Continuous Tense)
3. The train _____ (leave)before I reached station. (Past Perfect Tense)
4. Government _____(implement)many new tax policies. (Present Perfect Tense)

Q.5 Change the following sentences into 'Indirect Speech'.   **2**
1. Rashi said, " I am going to Delhi with my friend".
2. Teacher said to me, "what are you doing"?
3. Mother said, "Did you complete your homework"?
4. Rina said, "She can do this sum"

Q.6 Choose the correct prepositions given in the brackets.   **1**
1. He has been working here _____ last month. (within/since)
2. Children are running ____the park (into/in)

Mathematics (25 Marks)

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

1. $\left[\left(\frac{1}{2}\right)^4\right]^2$ is equal to _____

(a) $\left(\frac{1}{2}\right)^6$ (b) $\left(\frac{1}{2}\right)^8$ (c) $\left(\frac{1}{2}\right)^2$ (d) None of these

2. What should be added to $-\frac{5}{9}$ to get 0 ?

(a) $-\frac{4}{9}$ (b) $\frac{4}{9}$ (c) $-\frac{14}{9}$ (d) none of these.

3. A constant
(a) Can take different value   (b) Has no fixed value
(c) Is called a variable   (d) Has a fixed value.

4. A wire is $\frac{3}{10}$ m long, It is divided into 2 equal parts. The length of each part is _____

(a) $\frac{3}{5}$ (b) $\frac{6}{20}$ (c) $\frac{3}{20}$ (d) $\frac{5}{8}$

5. The Arithmetic mean of the first four whole number is _____
(a) 2   (b) 2.5   (c) 3   (d) 1.5

Q.2 **Solve the following:** 2×4=8

1. Arrange $\frac{-2}{5}, \frac{3}{-10}, \frac{-7}{15}$ in decreasing order.
2. Find the area of a square park whose perimeter is 560 m.
3. In a triangle ABC, ∠A = 50° and ∠B = 60°, find C.
4. Add: $2x^3 + 3x^2 + 2x - 4$, $x^3 - 2x^2 + 3x - 2$, $-4x^3 + x^2 - 4x + 3$.

Q.3 **Solve the following: (Any-4)** 3×4=12

1. Solve the equation:
   5(2x – 3) - 3(3x +7) = 7

2. The sum of two rational numbers is – 30. If one of number is $\frac{-9}{5}$. Find the other.

3. Ananya buys a watch for Rs. 12,000 and sells it for Rs. 15,000. What is her profit or loss?

4. The length of a Base and height of a triangle are in the ratio 2 : 5. If the area of the triangle is 180 sq m. Find the length of its base and height.

5. Divide 536 toffees among A, B and C in the ratio 12 : 40 : 15.

Science (15 Marks)

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

1. Neutralization reaction takes place between _____.
(a) A metal and oxygen   (b) A non-metal and oxygen
(c) An acid and an alkali   (d) An acid and water

2. An image formed in a plane mirror is
(a) Virtual, erect, laterally inverted and enlarged
(b) Virtual, erect, laterally inverted and reduced
(c) Virtual, erect, laterally inverted and of the same size.   (d) None of these

3. Symbiotic relationship between an alga and fungus is found in _____.
(a) Pitcher plant   (b) Lichen   (c) Mushroom   (d) Mistletoe

4. Green plants respire?
(a) Only during the day   (b) Only during the night
(c) All the 24 hours   (d) Not at all

5. Reproduction by fragmentation is common in _____.
(a) Spirogyra   (b) Mucor   (c) Bacteria   (d) Mosses

Q.2 **Answer the following questions in one word:** 3
1. Organisms which obtain their food from rotting material.
2. Freezing point of water on a thermometer.
3. Animals that prey on some other animals.

Q.3 **Answer the following questions:** 5
1. What are digestive enzymes (juices)?
2. What is humus?
3. What are neutral salts?
4. Why mercury is used in thermometer?
5. Name any two insectivorous plants.

Q.4 **Draw a well Labeled diagram of Urinary system in human** 2

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iSlksa dks muds lgh

ekfyd rd igq¡pkus ds fy, lwpuk i= fyf[k,A

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