CADET COLLEGE RAWALPINDI

SAMPLE ADMISSION TEST
FOR CLASS IX
SESSION 2022-2023

SCIENCE
_____

Multiple choice questions (MCQs).

1. Which acid is found in Tomatoes?
   (a) Citric acid   (b) Tartaric acid   (c) Formic acid   (d) all
2. Which group consists of thread like hyphae?
   (a) Algae   (b) Fungi   (c) Mosses   (d) Ferns
3. Body of fish consists of head, trunk and _____
   (a) Tail   (b) Foot   (c) Limbs   (d) None
4. Amphibians are _____ blooded.
   (a) Warm blooded   (b) Cold Blooded   (c) Both   (d) None
5. Which of the following animal is a parasite?
   (a) Amoeba   (b) Tapeworm   (c) Mosquito   (d) Snail
6. Butterfly is a/an _____
   (a) Insects   (b) Amphibian   (c) Bird   (d) Reptile
7. Nucleus contains thread like structure called _____
   (a) Chromatin   (b) Chromosomes   (c) DNA   (d) Genes
8. Tissue culture is a type of _____
   (a) Sexual Reproduction   (b) Asexual Reproduction   (c) Cutting   (d) Grafting

Write short answers of the following questions.
Q.1 What is ionic bond?
Q.2 What is Law of conservation of mass?
Q.3 What is an acid? Name three mineral acids.
Q.4 What is animal charcoal?
Q.5 What are Sedimentary rocks?

ENGLISH

Q1. **Multiple choice questions (MCQs).**
1. The bicycle was _____ by Nadir.   (Repaired, Corrected, Solved)
2. Punctuate the sentence.   (Use Commas, full stop, etc)
    "I like yellow blue red green white black purple and orange colours".
3. The smoke from chimney has badly _____ the city atmosphere. (Polluted, refreshed, Illuminated).
4. Chemicals are mixed _____ water.   (at, with, of)
5. Bees collect _____ from the flowers.   (juice ,water, nectar)

Q2. **Use the following pronouns in the given sentences.**
    (Everyone, Somebody, Someone, No one)
    1. _____ is watching us.
    2. _____ took my bicycle away.
    3. _____ came to the party. The room was all empty.
    4. Teacher told all students "_____ has to do it"
    5. Will _____ come to help me?

Q3. **Write second and third form of the following verbs.**
    Choose   Feel   Make   Hold   Sleep   Bleed
Q4. **Write a paragraph on "My aim of life"**
Q5. **Translate the following into English.**

۱۔   بارش ہو رہی ہے۔

۲۔   وہ اپنا کام کر چکا ہے۔

۳۔   وہ بیمار تھا۔

MATHEMATICS

Q1. **Multiple choice questions (MCQs).**
1.   {1,2} is _____ of {2,3,4}
        (a)   Subset   (b)   Super Set   (c)   Null Set   (d)   None
2.   All rational numbers have multiplicative inverses except _____
        (a)   0   (b)   1   (c)   ½   (d)   2
3.   The relationship between two or more proportion is known as _____ proportion.
        (a)   Compound   (b)   Direct   (c)   Inverse   (d)   None
4.   The factorization of x^2+5x+6 is _____
        (a)   (x + 2) (x + 3)   (b)   (x + 2) (x - 3)   (c)   (x - 2) (x + 3)   (d) (x - 2) (x - 3)
5.   A regular polygon consisting of 5 sides is called _____
        (a)   Hexagon   (b)   Pentagon   (c)   Octagon   (d)   Rectangle
Q2. **Solve the following questions.**
1.   If   X = { a, b, c, d}   Y= {b, d, e, f}   Z= {c, f, g, h} :
        Then show that X U (Y U Z) = (XU Y) U Z
2.   If price of 12 eggs is Rs. 28.00, how many eggs can be bought with Rs. 21.00?
3.   Divide $8x^3 + 16x^2+8x +3$ by $2x + 3$
4.   Find the volume of sphere of radius r= 7 cm.
5.   Simplify. $(3a – 4b)^2 + (5b – 6a)^2$