SARALA BIRLA PUBLIC SCHOOL

SUMMER ASSIGNMENT (2019-20)

STD – IX

Name : _____ Class and Section : _____UID No. : _____

English

1. You are Vedant / Vedika. You visited the Water Park near your city as a part of school excursion. You noticed that the water was not clean and also had a stale smell resulting in a decrease in the number of visitors. Write an article in 100 - 150 words for your school magazine about your experience and how the polluted water would further affect the visitors. Include the precautions to be taken in the Water Park.

2. Imagine you are Robert Frost. Write a diary entry on which road you would have chosen and give reasons for your answer in about 100 - 150 words.

3. What impression do you form of the stranger who helps the child when he is lost with reference to the chapter "The Lost Child"?

हिंदी

१. अलंकार की परिभाषा एवं भेदो को उदाहरण के साथ सुंदर सुंदर अक्षरों में लिखकर A-4 साईज क्राफ्ट पेपर में सज़ा कर् लिखें |

२. कबीरदास -साखियाँ सम्पूर्ण दोहों के भावार्थ एवं प्रश्नोतरी लिखें |

३. मेरे संग की औरतें पाठ की प प्रश्नोतरी लिखें |

संस्कृत

"सरस्वती वंदना" लिखें एवं इससे संबंधित चित्र बनाए या चिपकाए ।(कार्य A4 साइज पेपर में करें।)

Mathematics

1. Find five rational number between $\frac{3}{5}$ and $\frac{2}{3}$.
2. Express 0.163 in the form of $\frac{p}{q}$, where p and q are integers and q ≠ 0.
3. Represent $\sqrt{5.6}$ on the number line.
4. Rationalise
    a. $\frac{\sqrt{3}-1}{\sqrt{3}+1}$ b. $\frac{3-2\sqrt{2}}{3+2\sqrt{2}}$
5. Simplify
    $(625)^{0.16} \times (625)^{0.09}$
6. Find p(0),p(-1) if $p(y) = 4 + 3y - y^2 + 5y^2$.
7. Find the zero of the polynomial
    a. p(x) = 6x + 3   b. p(x) = ax − b   (a ≠ 0)
8. Find the remainder when $p(y) = 4y^3 - 12y^2 + 5y - 4$ divided by 2y − 1.
9. Examine whether x - 1 is a factor of $2x^3 - 5x^2 + x + 2$.
10. Find the value of k, if x + 1 is a factor of $p(x) = 3x^2 + kx - 6$.
    LAB ACTIVITY
    ACTIVITY-1.1 SQUARE ROOT SPIRAL
    ACTIVITY-3.1 QUADRANT AND COORDINATE

Physics

1. What does the slope of-
    (i) velocity - time graph and
    (ii)   distance - time graph indicate?

2. Derive all the three equations of motion by graphical method.

3. A car acquires a velocity of 72 km/ h in 10 secs starting from rest. Find (i) the acceleration, (ii) the average velocity, and (iii) the distance travelled in this time.

4. A bus running at a speed of 18 km/ h is stopped in 2.5 seconds by applying brakes. Calculate the retardation produced.

5. A cheetah starts from rest , and accelerates at 2 metres per second square for 10 seconds. Calculate:
   (a)   the final velocity
   (b)   the distance travelled

Chemistry

1. Distinguish solid,liquids and gases in a tabular form under the following characteristics

   a.Inter particle forces of attraction

   b. Compressibility

   c. Kinetic energy of particles

   d. Rigidly

2. Change the following temperature into Kelvin

   a.   -273 c   b.   30 c

3. Give reasons

   a. Why do we wear cotton clothes in summer?

   b. Why does ice float on water?

4. What is meant by the word Latent in latent heat? Explain

   a. latent heat of fusion

   b. latent heat of vaporization

Biology

1. Draw a plant cell and label the parts which

   i) Determine function and development of the cell?

   ii) Packages materials coming from the endoplasmic reticulum.

   iii) Is a fluid contains inside the nucleus.

   iv) Is site for biochemical reactions necessary to sustain life..

2. Differentiate between prokaryotes and eukaryotes.

3. Define plasmolysis and endocytosis.

4. Draw a labelled diagram to show the meristems.

5. Differentiate parenchyma, collenchyma and sclerenchyma.

Social Science

1. Draw a well labelled diagram given on figure 2 to a society of estates page 4
2. Learn and write the new words of page 4

Geography

Map work from page no.41 to page no.47 of map work book.

Economics

1. What is the basic constraint in raising farm production?
2. How is Green Revolution different from Traditional Farming?

Computer Application

Make a PowerPoint presentation explaining "COMPUTER SYSTEM".