# केन्द्रीयविद्यालय एस.ई.सी.एल. झगराखण्ड

# ग्रीष्मकालीनअवकाशगृहकार्य

# विषय – हिन्दी ,कक्षा – 10(A+B)

निर्देश:-सभीविद्यार्थीयहकार्यग्रीष्मकालीनअवकाशमेंकरेंगे।

1.अपनेक्षेत्रमेंहोनेवालीफसलोंकीजानकारीएकत्रितकरकेलिखिए|

2.किसीएकस्वतंत्रतासेनानीकासचित्रवर्णनकीजिए |

3. रूपांतर के आधार पर शब्द-भेद (विकारी-अविकारी) विस्तार से लिखिए |(फाइल वर्क )

4. दिए गए प्रारूप में पोर्टफोलियों तैयार कीजिए | (फाइल वर्क )

5.सूरदास, तुलसीदास, जयशंकर प्रसाद का कवि परिचय देते हुए उनकी रचनाओं का संकलन कार्य तैयार कीजिए | (फाइल वर्क )

6.स्वयंप्रकाश, रामवृक्ष बेनीपुरी, यशपाल  का लेखक परिचय देते हुए उनकी रचनाओं का संकलन कार्य तैयार कीजिए | (फाइल वर्क )

7. अपनेबड़ेभाईकीशादीमेंशामिलहोनेकेलिएतीनदिनकीछुट्टीहेतुप्राचार्यकोएकपत्रलिखिए |

8. निम्नविषयोंमेंसेकिसीएकपरनिबंधलिखें ( शब्दसीमा 250 शब्द )

    क – कोरोनाकाबिगड़तास्वरुपऔरबचावकेउपाय

   ख – मेराप्रियखेल

    ग –पर्यावरणप्रदूषणकारणऔरउपाय

# KENDRIYA VIDYALAYA SECL JKD

## CLASS- X
## SUBJECT- MATHEMATICS

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# INSTRUCTIONS:

- *Read all the questions carefully before solving. Write the solution of questions in Mathematics homework notebook.*
- *Complete the project separately on A4 sheets in neat and clear hand writing and attractive.*
- *Make a cover page for project mentioning your name, class and roll number clearly.*

## Section  A (Questions)

1. Check whether 75/455 is terminating or non-terminating decimal expansion.
2. Check whether 654.737373...   is a rational number. Justify.
3. A polynomial of degree 2 is called ------------------ polynomial. (Cubic/ quadratic/ linear)
4. $\sqrt{25}$ is a ----------------number. (rational/irrational)
5. Find the p/q form of 0.09999....
6. Find the H.C.F. of 567 and 255 using Euclid's division lemma.
7. Find the LCM and HCF of 510 and 92 and check whether LCM x HCF = product of the given numbers .
8. Find the degree of :
   (i)$6x^3-7x-3$ (ii) $4x^4-3x^5-4x+1$     (iii)

9. If $p(x)= x^3-3x^2+5x-3$ . find p(2), p(-1).
10.     Prove that $-\sqrt{3}$ is an irrational number.
11.     Prove that $2-7\sqrt{3}$ is an irrational number.

**12.** Factorize the following polynomials:
  i. $4x^2 - 3x - 1$
  ii. $3x^2 + 4x - 4$
  iii. $5t^2 + 12t + 7$

**13.** Prepare a table representing different solids and their names, surface areas and Volumes formulas.

## Section B (project work/activities)

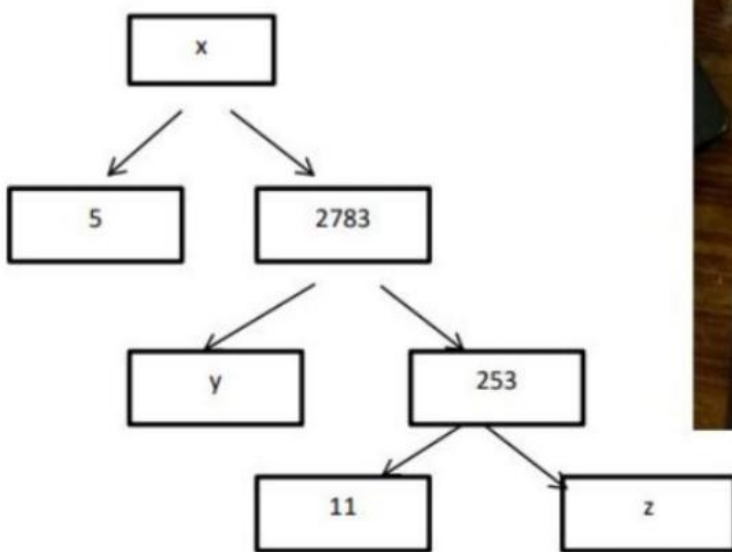**14.** Make a project on the title **"π - WORLD'S MOST MYSTERIOUS NUMBER"**

**15.** Perform following activities and write in activity notebook:

**Activity 1: OBJECTIVE:** To give a suggestive demonstration of the formula that the area of circle is half theproduct of its circumference and radius.

**Activity 2: OBJECTIVE** : To Derive the formula for Volume of a cube and cuboid using model and verify with example and calculation.

# 16.    CCT QUESTIONS

(i) A mathematical Exhibition is being conducted in your school and one of your friends is making a model of a factor tree. He has some difficulty and ask for your help in completing a quiz for the audience. Observe the following factor tree and answer the following.



i.   What will be the value of x?
  a) 15005          b) 13915          c) 56920          d) 17429

ii.   What will be the value of y?
  a) 23          b) 22          c) 11          d) 19

iii.   What will be the value of z?
  a) 22          b) 23          c) 17          d) 19

iv.   According to Fundamental Theorem of Arithmetic, 13915 is a.
  a) Composite number                    b) Prime number
  c) Neither prime nor composite          d) Even number

v.   The prime factorisation of 13915 is
  a) $5 \times 11^3 \times 13^2$          b) $5 \times 11^3 \times 23^2$          c) $5 \times 11^2 \times 23$          d) $5 \times 11^2 \times 13^2$

(ii)

Four satellites revolve around the earth once every 6, 8, 10, and 15 hr, respectively. If the satellites are initially lined up, how many hours must pass before they will again be lined up?

(iii)

The traffic lights at three different road crossings change after every 48 seconds, 72 seconds and 108 seconds respectively. If they change simultaneously at 7 AM, at what time will they change simultaneously again?

(iv)

A tile floor is to be made from 10 inch, 12 inch, and 15 inch square tiles. A design is made by alternating rows with different size tiles. The first row uses only 10 inch tiles, the second row uses only 12 inch tiles, and the third row uses only 15 inch tiles. Neglecting the grout seams, what is the shortest length of floor space that can be covered evenly by each row?

# Kendriya Vidyalaya SECL Jhagrakhand

## Summer Vacation – 2022-23

## Holiday Homework

## Subject – Science

### Class – X (A+B)

1. Prepare self notes on chapters-
    - I.      Life processes
    - II.     Acid base and salt
    - III.    Light: Reflection and Refraction
2. **Watch at least 20 videos of 3030 STEM, by CCL IITGN on YouTube and make a list of videos that you have watched.**

**Ashok Kumar Kushwaha**

**TGT Science**

**KV SECL Jhagrakhand**

1) Write message of these poems :-  1.Dust of Snow 2.Fire and Ice

2) Write moral education of the story :- A Triumph of surgery

3) What is the central idea of the lesson A Letter to God?

4) Read the lesson and then Write the summary in your own words:-  Nelson Mandela -long Walk to Freedom.

5) Construct stories on the given topics –(100-120 Words)

  i)     One in Hand is Better Than Two in the Bushes
  ii)    Wisdom Always Wins
  iii)   Slow And Steady Wins the Race
  iv)    Nature Never Changes
  v)     Hard Work is the Key to Success.

6) Draft articles (120-150 Words)

i) Coronavirus -pandemic

ii)  Wildlife Conservation

iii) Environment Pollution.

7) Draft a Tense Chart

8) Learn by  all the questions and answers of the syllabus completed upto 1ˢᵗ May 2022.

**KENDRIYA VIDYALAYA SECL JHAGRAKHAND**

**Holiday Homework for Summer Vacation- 2022**
**class-X B**
**Subject -English**

- Write message of these poems :-1.Dust of Snow
  2.Fire and Ice
- Write moral education of the story;
  1.A triumph of surgery
- What is the central idea of the lesson ALetter to God?
- Write the aim of the  lesson Nelson Mandela -long Walk to Freedom.
- Construct stories on the given topics –(100-120 Words)
  1. One in Hand is Better Than Two in the Bushes
  2. Wisdom Always Wins
  3. Slow And Steady Wins the Race
  4. Nature Never Changes
  5. Hard Work is the Key to Success.
- Draft articles :-(120-150 Words)
  1.Coronavirus -pandemic
  2. Wildlife Conservation
  3.Environment Pollution.
- Draft a Tense Chart

**Learn by heart all the questions and answers of the syllabus completed upto 1st May 2022.**