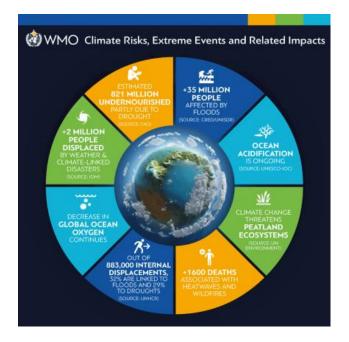# KV AFS BAGDOGRA

WINTER BREAK HOMEWORK 2021-22

CLASS X

ENGLISH

1. **GROUP WORK: ROLE PLAY (video)**
    - **Take any ONE scene from the following chapters-**
        a. **GLIMPSES OF INDIA (A Baker from Goa)**
        b. **MADAM RIDES THE BUS**
        c. **AMANDA**
        d. **THE NECKLACE**
    - **Prepare the dialogues in your own words.**
    - **Enact the scene.**
    - **Maximum persons in a group: 3 or 4**
    - **Make a video of your role play. Max time: 2 min.s**

2. Study the infographic and write a paragraph about the impacts of climate change on the world. Write the paragraph in 150 words and give it a suitable title. Also mention the solutions to this problem.

3. Read the chapter "Bholi" and answer the question-

    While the overall literacy rate in India works out to be 72.9 %, the male literacy rate is 80.89% and that for females is **64.64%**, showing a gap of 16.25 percentage points between the sexes at the national level. Cite the reasons for this gap and write why it is important for the girls to be educated? (150 words)

1.What is Functional group? Give example of four different functional groups.

2.Explain Isomerism. State any four characteristics of isomers. Draw the structure possible isomers of Pentane, C_5H_{12} and hexane C_6H_{14}.

3. A blue colour flower plant denoted by BB is cross bred with that of white colour flower plant denoted by bb.
(a) State the colour of flower you would expect in their F1 generation plants.
(b) What must be the percentage of white flower plants in F2 generation if flowers of F1 plants are self-pollinated?
(c) State the expected ratio of the genotypes BB and Bb in the F2 progeny.

 4.A Mendelian experiment consisted of breeding tall pea plants bearing violet flowers with short pea plants bearing white flowers. The progeny all bore violet flowers, but almost half of them were short. This suggests that the genetic make-up of the tall parent can be depicted as
(A)TTWW
(B)TTww
(C)TtWW
(D)TtWw

5.A man with blood group A marries a woman with blood group 'O' and their daughter has blood group 'O'. Is this information enough to tell you which of the traits- blood group A or 'O' - is dominant? Why or why not?

6.A battery of 9V is connected in series with resistors of 0.2 Ω, 0.3 Ω, 0.4 Ω, 0.5 Ω and 12 Ω , respectively. How much current would flow through the 12 Q resistor?

7.Show how you would connect three resistors, each of resistance 6 Ω, so that the combination has a resistance of (i) 9 Ω, (ii) 4Ω

8.When a 12 V battery is connected across an unknown resistor, there is a current of 2.5 mA in the circuit. Find the value of the resistance of the resistor.

9.An element 'X ' has atomic number 13
a. Write it electronic configuration.
b. state the group and period to which 'X ' belongs.

c. Is 'X ' a metal or non-metal?

d. Write the formula of its oxide and chloride.

10 **What were the limitations of Newlands' Law of Octaves?**

 11. **Do any of the one exemplary project**

A. MENDEL DIHYDRIDE CROSS BY TAKING TWO PAIR OF CONTRASTING CHARACTERS.

B.CONSULT THE MODERN PERIODIC TABLE & MAKE LIST OF ELEMENTS SHOWING VARIABLE VALENCY AND EXPLAIN WHY?

C. PREPARE A MEDEL ON Ch. ELECTRICITY THAT USED IN DAY NTO DAY LIFE

शीतकालीन अवकाश गृहकार्य

हिन्दी प्रोजेक्ट

रोल न.1 से 12 के लिए

सूर्यकांत त्रिपाठी निराला का जीवन परिचय बताते हुए हिन्दी साहित्य में इनके द्वारा दिये गए योगदान को लिखो।

रोल न.13 से 24 के लिए

ऋतुराज का जीवन परिचय बताते हुए हिन्दी साहित्य में इनके द्वारा दिये गए योगदान को लिखो।

रोल न.25 से 36 के लिए

यशपाल का जीवन परिचय बताते हुए हिन्दी साहित्य में इनके द्वारा दिये गए योगदान को लिखो।

रोल न.37 से 49 के लिए

सर्वेश्वर दयाल सक्सेना का जीवन परिचय बताते हुए हिन्दी साहित्य में इनके द्वारा दिये गए योगदान को लिखो।

के. वी. ए. एफ़.एस. बागडोगरा

कक्षा : दशमीं "संस्कृत"

१. दिन द्वयस्य अवकाशार्थं प्राचार्यः प्रति पत्रं लिखत।

२. लोट्लकारस्य, विधिलिङ्गलकारस्य प्रयोगं कृत्वा पञ्च संस्कृत वाक्यानिलिखत।

३. संधि विच्छेदं कुरुत –

प्रार्थनैषा , स्वागतम्, सज्जनः, भवनम्, दिगम्बरः, रत्नागारः, राजेन्द्रः, नमस्ते।

४. समास विग्रहं कुरुत -

महापुरुषः, त्रिलोकी, पञ्चवटी, उपरामम्, प्रतिदिनम्, मुखचन्द्रं, राजपुत्रः, ग्रामगतः रामलक्ष्मणौ।

५. अधोलिखित अंकानां कृते संस्कृत संख्यापदानि लिखत-

८.०० , ९.१५ , १०.३० , १०.४५ , ११.१०

WINTER BREAK HOME WORK CLASS X : MATHS

1. To obtain the solution of a quadratic equation ($x^2 + 4x = 60$) by completing the square

   geometrically. (Activity 4)

2. To identify Arithmetic Progressions in some given lists of numbers (patterns). (Activity 5)

3. To verify that the lengths of tangents to a circle from some external point are equal. (Activity 24)

4. To find the height of a building using a clinometer. (Activity 25)

Subject : Social Science

1. Nationalism in India : Pick out 20 MCQ with Answer.

Project Work

1. Every student has to compulsorily undertake any one project on the following topics:

CONSUMER AWARENESS

OR

SOCIAL ISSUES

OR

SUSTAINABLE DEVELOPMENT

MAP Work

Chapter - 2 Nationalism in India – (1918 – 1930) for Locating and Labelling / Identification
1. Indian National Congress Sessions:
a. Calcutta (Sep. 1920)
b. Nagpur (Dec. 1920)
c. Madras (1927)
2. **Important Centres of Indian National Movement**
a. Champaran (Bihar) - Movement of Indigo Planters
b. Kheda (Gujarat) - Peasant Satyagrah
c. Ahmedabad (Gujarat) - Cotton Mill Workers Satyagraha
d. Amritsar (Punjab) - Jallianwala Bagh Incident
e. Chauri Chaura (U.P.) - Calling off the Non-Cooperation Movement
f. Dandi (Gujarat) - Civil Disobedience Movement