

OXFORD ENGLISH SCHOOL

AFFILIATED TO C.B.S.E., NEW DELHI

KAZZAKPURA, VARANASI

SUMMER VACATION HOLIDAY HOMEWORK

CLASS -X

HINDI- ग्रीष्म अवकाश कार्य

- 1- स्वामी विवेकानन्द के चित्र को चार्ट पेपर पर बना कर उनके द्वारा दिए गये किन्ही दो संदेशों को लिखो।
- 2- रस के भेदों को स्थायी भाव, आलम्बन विभव, उद्दीपन विभाव, अनुभाव एवं संचारी भावों के साथ परिभाषित करते हुए एक-एक उदाहरण लिखिए - (फाईल में)
- 3- बिस्मिल्ला खां के चरित्र की किन्ही तीन विशेषताओं का उल्लेख कीजिये जिनमें आप बहुत अधिक प्रभावित हुए हैं अपनी पाठ्य पुस्तिका के पाठ-नौबतखाने में इबादत के आधार पर ही लिखें (फाईल में)
- 4- अपने राज्य के परिवहन-प्रबंधक को एक पत्र लिखिए जिसमें आपकी बस्ती तक नया बस-मार्ग आरम्भ कराने का अनुरोध हो

SOCIAL-

- 1-Prepare all the topics from the following chapters-
 - a) Resources
 - (b) Forest and wildlife resources
 - c) Development
 - (d) The making of a global world
 - e) The age of industrialization
 - (f) Power sharing
 - g) Federalism
- 2- Learn all the important notes and definition
- 3- On a chart paper draw an outline map of India and mark the following (use colours)
A- Distribution of soil Or B- Wild life sanctuaries & national parks.

SCIENCE

- 1- What is Cascuta, ticks and leeches?
- 2- What is Photosynthesis and which raw materials used in photosynthesis?
- 3- What are villi and its function?
- 4- Describe the labelled diagram of Heart and its parts.
- 5- Define the kidney and its parts.
- 6- What is digestion?
- 7- Differentiate Xylem and Phloem.
- 8- Opening and closing of stomata depend on & draw the structure.
- 9- Draw the structure of teeth.
- 10- Hydathode opening present in.
- 11- Number of numerous chloroplast present in which region of leaf?
- 12- Cut the section of leaf and show its parts.
- 13- Define Dentine.
- 14- Apical foramen present in?

PROJECT WORK: - MAKE A PROJECT OF "WASTE OF BEST"

Or

USE PAPER MAKES A "TABLE LAMP".

Class-X-(Maths) H.W.

Q① Prove that any positive odd integer is of the form $(6q+1)$, $(6q+3)$ or $(6q+5)$ where q is some integer.

Q②. Prove that (n^2-n) is divisible by 2 for every positive integer n .

Q③ Prove that an odd positive integer should be of the form $(8n+1)$ to be a perfect square.

Q④. Prove that the product of two odd numbers of the form $(4n+1)$ is also of the form $(4n+1)$.

Q⑤ The largest number that will divide 398, 436 and 542 leaving remainders 7, 11 and 15 respectively is

(a) 17 (b) 18 (c) 19 (d) 20

Q⑥ Find the HCF of 65 and 117 and express it in the form $(65m+117)$.

Q⑦ If the HCF of 657 and 963 is $657x+963y(-15)$ then find the value of x .

Q⑧. Explain why $7 \times 11 \times 13 + 13$ is a composite number.

Q⑨ Prove that -

(i) $(3+5\sqrt{2})$ (ii) $\frac{3-\sqrt{5}}{\sqrt{2}}$ (iii) $\frac{2-\sqrt{7}}{2+\sqrt{3}}$

are irrational numbers.

Q⑩. If a and b are two positive integers such that the least prime factor of a is 3 and least prime factor of b is 5. Then the least prime factor of $(a+b)$ is

(a) 2 (b) 3 (c) 5 (d) 8

Q. (11) Express each of the following, as a fraction in simplest form

(i) $0.\overline{24}$ (ii) $5.\overline{324}$ (iii) $1.\overline{012}$

Q. (12) Obtain the zero of the quadratic polynomial $(\sqrt{3}x^2 - 8x + 4\sqrt{3})$ and verify the relation between its zeros and coefficients.

Q. (13) Find a quadratic polynomial, whose zeros are 1 and -3. Verify the relation between the coefficients and zeros of the polynomials.

Q. (14) Find the quadratic polynomial whose zeros are $\frac{2}{3}$ and $-\frac{1}{4}$. Verify the relation between the coefficients and the zeros of the polynomial.

Q. (15) What real number should be subtracted from the polynomial $(3x^3 + 10x^2 - 14x + 9)$ so that $(3x-2)$ divides it exactly.

Q. (16) It is given that 1 is a zero of the polynomial $(-x^3 + 7x - 6)$. Find its other zeros.

Q. (17) If the polynomial $(x^4 + 2x^3 + 8x^2 + 12x + 18)$ is divided by another polynomial $(x^2 + 5)$ the remainder comes out to be $(px + q)$. Find the values of p and q.

Q. (18) If two zeros of the polynomial $f(x) = x^4 - 6x^3 - 21x^2 + 138x - 35$

are $(2 + \sqrt{3})$ and $(2 - \sqrt{3})$, find the other zeros.

Q. (19) Divide $(6 + 19x + x^2 - 6x^3)$ by $(2 + 5x - 3x^2)$ and verify the division algorithm.

Q. (20) If α, β, γ be the zeros of the polynomial $P(x)$ such that $(\alpha + \beta + \gamma) = 3$, $(\alpha\beta + \beta\gamma + \gamma\alpha) = -10$, $\alpha\beta\gamma = -24$ then find $P(x)$.