

English

Holiday Home-work

Class — X
Subject — English

Note: The following exercises are to be done in Exam-mate work book only

1. Comprehension passages — 1, 2 & 3 {page no. 8-12}
2. Factual passages — 1, 2 & 3 {page no. 40-46}
3. Write a letter to The Editor given on page No. 63.
4. Write an article given on page no. 81.
5. Develop a short story given on page no. 96.
6. Fill Exercises given on page no. 215 (Exercise No. 1, 2, 3, 4 & 5 only)
7. Editing Exercises 1, 2, 3, 4 & 5
8. Sentence Reordering exercises 1, 2, 3, 4 & 5
9. Learn all the chapters taught before 'Holidays'.

Dwarka
08/05/19

Malika
9/5/19

Maths. Holiday Home Work

Class X.

Q1. Using Euclid's algorithm find the HCF of.

(a) 196, 38220. (b) 1651, 2032 (Pg 3 Q-3, 4.)

Q2. Show that square of any positive integer is of the form $3m$ or $(3m+1)$ for some integer m . (Pg 5 Q 5)

Q3. Show that any positive odd integer is of the form $(4m+1)$ or $(4m+3)$, m is any integer (Pg 8 Q 7)

Q4. Show that (i) $5 \times 11 \times 13 + 11$ (ii) $6 \times 5 \times 4 \times 3 \times 2 \times 1 + 5$ are composite number. (Pg 9 Q 1)

Q5. If $\text{HCF}(252, 594) = 18$. Find $\text{LCM}(252, 594)$ (Pg. 12 Q 7)

Q6. Find the largest number which divides 129 and 545 leaving remainders 3 and 5. (Pg 13 Q. 11)

Q7. The decimal expansion of $\frac{43}{2^4 \times 5^3}$ will terminate after how many places of decimal? (Pg. 22 Q 3)

Q8. Prove that following are irrational numbers.

(i) $\sqrt{3}$ (ii) $2\sqrt{3}$ (iii) $\frac{1}{\sqrt{2}}$ (iv) $\sqrt{2} + \sqrt{3}$.

(Pg 27 Th 3, Pg 31 Q 2, 3, 5)

Q9. Find the zeroes of polynomials and verify the relation between its zeroes and coefficients

(i) $2x^2 + 5x - 12$, (ii) $6x^2 - 3 - 7x$ (iii) $\sqrt{3}x^2 - 8x + 4\sqrt{3}$ (Pg. 45 Q 1, 2, 3)

Q10. Find a quadratic polynomial having $\sqrt{2}$ and -12 as sum and product of its zeroes (Pg. 47 Q 6)

Q11. If the product of the zeroes of $ax^2 - 6x - 6$ is 4. Find 'a' (Pg 47 Q 7)

Q12. If the zeroes of $(a^2 + 9)x^2 + 13x + 6a$ are reciprocal to each other. Find the value of 'a' (Pg. 48 Q 8)

Q13. If $(x+a)$ is a factor of $2x^2 + 2ax + 5x + 10$. Find 'a' (Pg 49 Q 20)

- Q14. If the polynomial $(x^4 + 2x^3 + 5x^2 + 12x + 18)$ is divided by $(x^2 + 5)$ the remainders are $(px + q)$. Find p & q .
(Pg. 54 Q-8)
- Q15. If $\sqrt{2}$ and $-\sqrt{2}$ are the zeroes of $2x^3 - 4x - x^2 = 2$. Find all the zeroes.
(Pg. 56 Q-11)
- Q16. If $(2 \pm \sqrt{3})$ are the zeroes of $x^4 - 6x^3 - 26x^2 + 138x - 35$. Find the other zeroes.
(Pg. 56 Q-12)
- Q17. If 3 is a zero of $2x^2 + x + k$. Find k . (Pg. 59 Q-6)
- Q18. If α, β are the zeroes of $6x^2 + x - 2$ find $\left(\frac{\alpha}{\beta} + \frac{\beta}{\alpha}\right)$.
(Pg. 60 Q-22)
- Q19. Show that $(5, 2)$ is a solution of $2x + 3y = 16$ and $x - 2y = 1$.
(Pg. 72 Q-1)
- Q20. Solve graphically $x + 2y = 3$, $4x + 3y = 2$. (Pg. 74 Q-1)
- Q21. Solve graphically $4x - 5y = 16$, $2x + y - 6 = 0$ and find the vertices of Δ formed by these lines and x -axis and find the area of the triangle. (Pg. 76 Q-2)
- Q22. Solve (i) $2x + y = 7$, $4x - 3y + 1 = 0$. (use substitution)
(ii) $10x + 3y = 75$, $6x - 5y = 11$ (use elimination method).
(iii) $152x - 378y = -74$, $-378x + 152y = -604$
(iv) $\frac{1}{2(2x+3y)} + \frac{12}{7(3x-2y)} = \frac{1}{2}$, $\frac{7}{(2x+3y)} + \frac{4}{3x-2y} = 2$.
(Pg. 89 Q-1, Pg. 91 Q-3, Pg. 101 Q-22, Pg. 97 Q-14)
- Q23. Solve $2x + 3y = 17$, $3x - 2y = 6$ (by cross multiplication method).
(Pg. 109 Q-1)
- Q24. Find k if $kx + 3y = k - 3$, $12x + ky = k$ have infinite many solutions.
(Pg. 115 Q-5)
- Q25. Find m and n if $4x + 3y = 12$, $(m+n)x + 2(m-n)y = (5m-1)$ have infinite many solutions. (Pg. 117 Q-8)
- Q26. The sum of two numbers is 8 and sum of its reciprocal is $\frac{8}{15}$. Find the numbers. (Pg. 132 Q-13)

Maths Project work (2019-20)

To be attached with holiday
Home work.

Topic - Graphical Magnitude
of Earthquake in various
parts of the world.

(do it in A-4 sheet and make a
separate folder for it.)

SOCIAL SCIENCE

Date / /

Page

8th

Prepare the below chapters:-

1. History : The Rise of Nationalism in Europe.
2. Civics : Powersharing
3. Geography : Resource x Development
4. Economics - Development

Make a project Report of 15 Pages along with Pictures in "consumer Rights."

MBS

Bildigeet 2020

Holiday Home-work (X)
[Phy]

→ Chapter - 01 Current Electricity

- (i) All NCERT questions from 'Textbook' for learning.
- (ii) Numerical problems of Chapter - 1 (Electricity) for practice.
- (iii) All notebook work for learning
- (iv) Do 'Lab-Manual' work from page-no. 17 to 19. [Experiment No- 04].

[Chem]

Chapter - 01 Chemical Reactions and Equations

- (i) All NCERT questions from 'Textbook' for learning.
- (ii) All notebook work for learning.
- (iii) Do 'Lab-Manual' work from page-no. 6 to 8 [Experiment No- 02 & 2(A)]

[Bio]

Chapter - 01 'Life Processes'

- (i) All NCERT questions from 'Textbook' for learning.

- (ii) Do 'Lab-Manual' work from page-no. 24 to 25 [Experiment No- 6]