



R.E.D. Group of Schools
(Managed by R.E.D. Society, Chhuchhakwas)
Class- X (Summer Holidays Home Work)
Session: 2017-2018

R.E.D. SR. SEC. SCHOOL
CHHUCHHAKWAS

ENGLISH

- Pre-read Drama -1 & Fiction-4 (Underline difficult words & write word meaning in your note book)
- Write a diary entry about your most enjoyable day in the vacations.
- Prepare a chart as per the schedule-
Modals Roll.No 1-10
Narration Roll.No 11-20
Voices Roll.No 21-30
Verb forms Roll.No 31-43
- Find out five words from news paper daily and write their meaning in a separate note book & frame sentences of your own (100 words)
- Write 20 phrasal verbs & frame sentences of your own of each.

HINDI

कंठस्थ करने का कार्य –

क्षितिज – पाठ – नेता जी का चश्मा, बालगोबिन भगत, लखनवी अंदाज मानवीय करुणा की दिव्य चमक, सूरदास, देव, आत्मकथ्य,।

कृतिका – पाठ – माता का अँचल, जॉर्ज पंचम की नाक।

व्याकरण – वाक्य(रचना के आधार पर), रस।

सृजनात्मक लेखन का कार्य–

- निम्नलिखित उत्पादों/विषय को आधार बनाकर विज्ञापन तैयार कीजिए–
• साबून • कार • स्कूल • घर • बेटी बचाओ, बेटी पढ़ाओ।
- जून की छुट्टियों के दौरान आपने कोई ऐसी घटना देखी हो जिसने आपके अंदर करुणा के भाव पैदा किए हों। उसके बारे में लिखिए।
- पाठक्रम में आने वाले रसों के दो-दो मौलिक उदाहरण लिखिए।
- काँपी में कुछ विज्ञापनों के चित्र एवं उनसे जुड़ी विशेषताओं को किसी समाचार-पत्र या पत्रिका में से काटकर चिकाएँ।

MATHS

Instructions:

- * Construct the figures / diagrams using pencil and ruler/scale.
 - * Test will be held after holidays from the question given in holidays home work.
- Using Euclid's division algorithm, find HCF of (135, 225).
 - Find the HCF of the polynomials:
 $150(6x^2 + x - 1)(x - 3)^3$ and $84(x - 3)^2(8x^2 + 14x + 5)$
 - An army contingent of 616 members is to march behind an army contingent of 32 members in a parade. The two groups are to march in the same number of columns. What is the maximum number of columns in which they can march?
 - Prove that $2 + \sqrt{2}$ is not a rational number.
 - The length, breadth and height of a room are 8m 25 cm, 6m 75 cm and 4m 50 cm respectively. Determine the longest rod which can measure the three dimensions of the room exactly.
 - Find the smallest number which leaves remainders 8 and 12 when divided by 28 and 32 respectively.
 - If α, β be the zeroes of $ax^2 - bx + 5$, find a and b if sum of zeroes is $\frac{4}{3}$ and product of zeroes is $\frac{5}{3}$.
 - If α, β are the zeroes of a quadratic polynomial $f(x) = x^2 - x - 2$, then find a polynomial whose zeroes are $2\alpha + 1, 2\beta + 1$.
 - If α, β are the zeroes of polynomial $f(x) = x^2 - 5x + k$, such that $\alpha - \beta = 1$, find the value of k .
 - If α and β are zeroes of $f(x) = x^2 - p(x+1) - c$. Show that $(\alpha + 1)(\beta + 1) = 1 - c$
 - If two zeroes of a polynomial $x^4 - 8x^3 + 19x^2 - 12x + 2$ and $2 \pm \sqrt{2}$, find other zeroes.

12. Verify that 1, 4, 7 are the zeroes of polynomial $x^3 - 12x^2 + 39x - 28$. Also verify the relationship between the zeroes and the coefficients.
13. Is the pair of linear equations $2x + 3y - 11 = 0$ and $4x + 6y + 7 = 0$ consistent?
14. Solve for x and y , if the given system of equations is:
- $$\frac{x+1}{2} + \frac{y-1}{3} = 8 \text{ and } \frac{x-1}{3} + \frac{y+1}{2} = 9$$
15. Draw the graph of equations $2y - x = 8$, $5y - x = 14$ and $y - 2x = 1$. Also, obtain the vertices of the triangle so formed.
16. Solve: $3(2u + v) = 7uv$,
 $3(u + 3v) = 11uv$
17. Find the values of a and b for which the following system of equations has infinite many solutions.
 $3x + 4y = 12$ and $(a + b)x + 2(a - b)y = 5a - 1$
18. Five years ago, Nuri was thrice as old as Sonu. Ten years later, Nuri will be twice as old as Sonu. How old are Nuri and Sonu?
19. Solve for x : $x^2 - (\sqrt{2} + 1)x + \sqrt{2} = 0$.
20. Is the following equation having repeated roots $3y^2 + 15y + 3 = 0$.
21. Find the value of k for which the given equation $(k + 1)x^2 - 2(3k + 1)x + 8k + 1 = 0$ has real and equal roots.
22. Solve: $\frac{1}{p+q+x} = \frac{1}{p} + \frac{1}{q} + \frac{1}{x}$
23. Find the roots of the equation $2x^2 + x - 4 = 0$ (if they exist) by the method of completing the square.
24. Rs. 6500 were divided equally among a certain number of persons. Had there been 15 more persons each would have got Rs. 30 less. Find the original number of persons.
25. The sum of 14 terms of an AP is 1050 and its first term is 10, find its 20th term.
26. Determine k , so that $k+2$, $4k-6$, $3k-2$ are three consecutive terms of AP.
27. For what value of n , the n th term of A. P.'s 63, 65, 67, and 3, 10, 17, are equal.

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28. If in an A. P., the sum of p terms is q and sum of q terms is p , then find sum of $(p+q)$ terms.
29. Find the sum of all natural numbers between 100 and 1000 which are multiples of 5..
30. If the p th term of an A. P. be q and q th term be p , prove that $(p+q)$ th term is zero.
31. To solve 3 Mock Test of N.T.S.E (Only for A, G and H Sections)

SCIENCE

- Pre - read and find the meaning of difficult words:
 - Chapter - 8 "How Do Organism Reproduce".
 - Chapter - 10 "Light - Reflection and Refraction.
 - Chapter - 4 "Carbon and Its Compound.
- Learn chapter - 7 (Control and Coordination)
 - Learn Chapter - 3 (Metals and Non - Metals.
- Prepare a report on "Human Evolution".
- Complete lab manual of Physics, Chemistry and Biology as per instruction given by the subject teacher.
- Prepare a working model based on electricity, conservation of energy or any other based on science topic.
- To solve 3 Mock Test of N.T.S.E (Only for A, G and H Sections)

SOCIAL SCI.

- To read the following chapters and frame 50 questions (Very Short Answer) from each lesson
 - Political Parties
 - Mineral and Energy Resources
- To make the project on - Different democratic movements throughout the world.

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3. To plant 10 sublings (Plants) in your surrounding area and bring selfie of your activity.
4. To follow 5 headlines daily during the holidays and make final news conclusion of these news.
5. To solve 3 Mock Test of N.T.S.E (Only for A, G and H Sections)

COMPUTER

1. Draw a chart on the given topic:

Rno 1- 8 : Data Types in Database
Rno. 9-16 : Different E-Services
Rno. 17-24 : Structure of HTML and different tags of HTML
Rno 25-33 : Tree Structure of XML
Rno 33 Onwards : Logical structure of XML documents

2. Learn chapter 1 to 4 complete for test

3. Make an Article on the given topic with the help of newspaper, magazine, internet, books etc.

Rno 1- 15 : Information Security
Rno. 16-30 : Virus/ Antivirus
Rno. 31 onwards : E-Commerce

4. Prereading and Underline.

Students read the 5th and 6th chapter carefully and underline the difficult words, and write the meaning in books.

5. Exercise

Solve all the application oriented questions of chapters 1 to 4 in fair notebook