D.A.V. CENTENARY PUBLIC SCHOOL ,SEC.-12,HUDA,PANIPAT

HOLIDAY’S HOMEWORK

CLASS –X

 ENGLISH

(i) Write a short story (with illustrations) based on any of the

 following themes.

 - An eye for an eye will make the world blind

 - Grass is always greener on the other side

 (On A3 sheet)

(ii) Read Ch.-The Necklace (Footprints..) and Ch.-The Hundred Dresses-1

 (First Flight) and summarize them in Notebook.

(iii) Select 20 difficult words from your chapters. Prepare a dictionary by

 writing their meanings, other parts of speech and short sentences.

 Present your work in any creative way.

(IV) Write conversation on any of the following situations and convert

 that in reported speech.

 -Between guide and tourist

 - Between two friends before exams.(In Notebook)

(v) Revise the syllabus covered till now.

HINDI

1) पाँच अपठित काव्यांश संकलित करे सात अंक के पांच प्रश्न बनाएं(तीन प्रश्न एक एक अंक के व दो प्रश्न दो दो अंक के)

2) विज्ञापन लेखन

नृत्य सिखाने के संस्थान का विज्ञापन

पुरानी कार बेचने हेतु विज्ञापन

मतदान में योगदान पर विज्ञापन

3) वाक्य के भेद पर मॉडल तैयार करें।

4) भाव व्यक्त करने वाली चेहरे की आकृतियां तैयार करें।

 MATHS

**1**.Write HCF of smallest composite number and smallest prime number.

**2**.Find HCF of 180,252 and 324 by Euclid Divison Algorithm.

**3**.Four bells toll togetherat 9:00am. They toll after 7,8,11,12 seconds respectively. How many times willtheytoll together againstin next 3 hrs.

**4**.There are 576 boys and 448 girls in a school thatare to be divided into equal sections of either boys or girls alone. Find total no of sections thus formed

**5**.Show that ($\sqrt{2}$ +$\sqrt{3 }$ )2 is irrational.

**6**. Write whether 2 $\sqrt{45}$ + 3 $\sqrt{20}$ on simplification gives rational or irrational number.

 2 $\sqrt{5}$

**7**.If sum of zeros of polynomial 5x2 – (3 + k)x + 7 is zero, then find the zeros of polynomial 2x2 – 2( k + 11 )x + 30.

**8**. Verify whether 2,3,1/2 are zeros of polynomial p (x) = 2x3 – 11x2 + 17x – 6.

**9**. $α$and$β$ are zeros of polynomial x2 + 6x + 9, then form a polynomial whose zeros are ( - $α$ , - $β$ )

**10**.If one zero of polynomial ( k + 1 )x2 – 5x + 5 is multiplicative inverse of the other , then find the zeros of kx2 – 3kx + 9 where k is constant.

**11**.Given that x - $\sqrt{5}$ is a factor of polynomial x3 - 3$\sqrt{5}$ x2 – 5x + 15$\sqrt{5}$ , find all zeros of polynomial.

**12**. Solve graphically 3x – 2y – 1 = 0 ; 2x – 3y + 6 = 0 shade the region bounded by these lines and x – axis.

**13**. Solve : 99x+101y = 499 ; 101x + 99y = 501

**14**. Solve the following system of equation:

a (x + y ) + b ( x – y ) = a2 – ab + b2 ; a(x + y ) - b ( x – y ) = a2 + ab + b2

**15**. A man invested Rs 30,000 in two types of bonds. On one he earns 5% and on other, he gets 7%. If his total earnings are Rs 2000, find his investment in each type of bond.

16. Find all the zeroes of thepolynomial 2x3+x2-6x-3, if two of its zeroes are $\sqrt{3}$ and - $\sqrt{3}$ .

17. Find k if x2+2x+k is a factor of the polynomial 2x4+x3-14x2+5x+6. Also find all the zeroes of the two polynomials.

18. If one zero of the polynomial f(x) = (k2+4)2+13x +4k is the reciprocal of the other, then find the value of k.

19. If α and β are the zeroes of the polynomial f(x) = x2-5x+k, such that α –β = 1,find the value of k.

20. What must be added to the polynomial 6x5 +5x4+11x3-3x2+x+5 so that it may be exactly

divisible by 3x2-2x+4?

21. Find the sum of all the multiples of 7 lying between 500 and 900.

22. In an A.P., the sum of first ten terms is -150 and the sum of its next ten terms is -550. Find the A.P.

23. If pth term of an A.P. is q and the qth term is p . Prove that its nth term is (p+q-n).

24. How many terms of the A.P. 18,16,14………….. be taken so that their sum is zero?

25. The digits of a positive three digit number are in A.P. and their sum is 15. The number obtained by reversing the digits is 594 less than the original number. Find the number.

26. In ABC , /A = x, /B = 3x and /C = y. If 3y-5x =30, prove that the triangle is right angled.

27. Find the value of p and q for whichthe following system of linear equation has infinite number of solutions :

2x+3y= 9 ; (p+q)x + (2p-q)y= 3(p+q+1)

28. What will be the area of triangle formed by the line $\frac{x}{a}$ + $\frac{y}{b}$ =1 with the coordinate axes.

29. Age of the father is twice the sum of the ages of his two children. After 20 years, his age will be equal to the sum of the ages of his children. Find the age of the father.

30. A thief runs with a uniform speed of 100 m/minute. After one minute a policeman runs after the thief to catch him. He goes at a speed of 100m/minute in the first minute and increase his speed by 10m/minute in each succeeding minute. After how many minutes the policeman will catch the thief?

Activities

1. Represent the prime factorisation of a composite number through Factor Tree (A4 sheet)
2. Prepare a working model representing zeros of quadratic polynomial.
3. Make a project of comparative study of solution of pair of linear equations Graphically and Algebraically.
4. Make an activity to derive the formula ofanandSn for Arithmetic Progression.
5. Do assignment (attached on back).
6. Learn tables 2- 20

 SCIENCE

1. Prepare working model on any one of these :-
2. Resistors in series/parallel
3. Respiratory system/circulatory system
4. Electrolysis of water
5. Solar device/Bio gas plant
6. Prepare chart on any one of these:-
7. Excretion in kidneys
8. Periodic table
9. OTEC PLANT
10. Symbols of electrical components
11. Search out any one new invention in field of science explore it and enlist it on A-3 Sized sheet
12. Complete the assignment given ( Previous year board questions)

S.SC

1.Prepare any one project on the following topics

1. Consumer awareness
2. Social Issues
3. Sustainable development

2. Make an attractive poster on communal harmony OR Unity in diversity

3. Prepare a wall magazine of newly elected govt .with the help of news paper clippings EX. P.M. ,three categories of ministers along with their ministeries

4. Imagine yourself own finance agency prepare a brocture on the credit available for different purposes ( edu. Lone, car and home loan ect )

5. Prepare question bank of topic given below acc. to roll no.

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| --- | --- | --- |
| R.NO. | BOOK | LESSONS |
| 1 TO 10 | HISTORY | L -3 |
| 11 TO 20 | GEOGRAPHY | L-1(G)1to15 L1(E) 16to20 |
| 21 TO 30 | CIVICS | L-1,2 |
| 31 ONWARDS | ECONOMICS | L -2 |

COMPUTER APPLICATION

* Make a scrap file on Networking..
* Learn and write HTML codes.

PAINTING

* Painting on+ Switch of light when out side Bright”.
* Flower pot with painting or clay work