

BCM SCHOOL
CHANDIGARH ROAD, LUDHIANA
HOLIDAYS HOMEWORK

CLASS -X

SUBJECT- ENGLISH

" Learning is a treasure that will follow it's owner everywhere "

Instructions:-

1. Holidays' homework must be done in a very neat and presentable manner .
 2. Students will be assessed for presentation, neatness, completion of all the given questions and timely submission.
 3. Revise all the topics covered till now as it will help you for future assessments.
- * Write a dramatic script of any social issue. Divide it into 4 scenes and also add 4 to 5 characters . Each scene should be written on separate A4 size sheet. (10m)
- *Compare and contrast the growth rate of economy of our country referring to data of last five years (2017 to 2021) by drawing a bar graph and write an analytical paragraph on the basis of analysis of the data. (5m)
- *Prepare a Powerpoint Presentation on Figures of Speech with examples from the poems 'Dust of Snow', 'Fire and Ice' and 'A Tiger in the Zoo'.(5 Marks)

SUBJECT - HINDI

- 1.नवयुग हिंदी व्याकरण के दसवीं कक्षा के व्याकरण अभ्यास में से प्रश्न अभ्यास 1 से 6 तक कॉपी में लिखकर हल करें |
- 2.आप बस द्वारा यात्रा कर रहे थे | इस दौरान आपके शैक्षिक प्रमाण पत्रों का बैग बस में ही छूट गया था | बस में छूटे सामान का पता लगाने के लिए परिवहन निगम के मुख्य प्रबंधक को एक पत्र लिखिए|
- 3.आपका छोटा भाई पढ़ाई में ध्यान देने के बजाय मोबाइल पर बहुत अधिक समय बिता रहा है | परीक्षा के महत्व से अवगत करवाते हुए उसे एक पत्र लिखिए |
4. दीवाली के अवसर पर दुकान में लगी साड़ी की सेल की जानकारी लोगों तक पहुंचाने हेतु एक विज्ञापन बनाएं।
5. साईं कोचिंग सेंटर शिक्षण संस्थान' विषय पर एक विज्ञापन तैयार कीजिए।
- 6.नारी, बचपन, प्रकृति, स्वच्छता और भ्रष्टाचार, महंगाई, नशा, आतंकवाद आदि सामाजिक समस्याओं में से किसी एक विषय पर स्वरचित कहानी, कविता या निबंध लिखें |
- 7.निम्नलिखित पाठ्यक्रम आने वाली परीक्षाओं के लिए याद करें -----
क्षितिज- पाठ- नेताजी का चश्मा, बालगोबिन भगत और कविता -सूरदास के पद - याद करें |
कृतिका का पाठ -1 -माता का अंचल- याद करें |
(नोट : आप अपना कार्य सुंदर लिखाई में एक अलग कॉपी में करें)

SUBJECT - PUNJABI

ਵਰਗ ਪਹੇਲੀ ਵਿਚੋਂ 10 ਮੁਹਾਵਰੇ ਚੁਣ ਕੇ ਲਿਖੋ ਅਤੇ ਅਰਥ ਵੀ ਲਿਖੋ।

	ਵਰਗ ਪਹੇਲੀ					
ਕੱਛਾਂ	ਕਲੇਜਾ	ਖੇਤੇ	ਭਰਨੇ	ਖੁੰਬ	ਖਿਆਲੀ	ਹੋਣਾ
ਕਦਮਾਂ	ਕੁੱਤੇ ਦੀ	ਘੁੱਟ	ਵਿਠਿਆਂ	ਤੇ	ਹੈਲੇ	ਪਲਾਓ
ਕੋੜੇ	ਤੇ	ਵਜਾਉਣੀਆਂ	ਖੂਨ	ਜਾਣਾ	ਪਕਾਉਣੇ	ਠੱਪਣੀ
ਖਲੇਣ	ਖਾਤਰ	ਕੰਨ	ਮੋਤ	ਕੱਖੋਂ	ਖੇਹ	ਚੜ੍ਹਾਉਣਾ
ਖਿਚੜੀ	ਜੋਗਾ ਨਾ	ਤੁਰਨਾ	ਕਰਨੀ	ਖੋਲਣਾ	ਮਰਨਾ	ਛਾਣਦੇ
ਕਲਮ	ਦੇ ਧਨੀ	ਛੱਡਣਾ	ਖੀਸੇ	ਘੋਸਲ	ਫਿਰਨਾ	ਹੋਣਾ
ਖੰਡ-ਖੀਰ	ਕੈਲ	ਪਕਾਉਣੀ	ਹੋਣਾ	ਭਰਨੇ	ਪਾਲਣੇ	ਮਾਰਨਾ

* ਸਕੂਲ ਮੈਗਜ਼ੀਨ ਲਈ ਕੋਈ ਗੀਤ, ਟੱਪਾ, ਬੋਲੀ, ਮਿੰਨੀ ਕਹਾਣੀ, ਇਕਾਂਗੀ, ਲੇਖ (ਆਰਟੀਕਲ) ਲਿਖੋ। ਇਹ ਰਚਨਾ ਤੁਹਾਡੀ ਆਪਣੀ ਹੋਣੀ ਚਾਹੀਦੀ ਹੈ।

* 'ਪਲਾਸਟਿਕ ਲਿਫਾਫਿਆਂ ਤੋਂ ਗੁਰੇਜ਼ ਕਰੋ' ਇਸ ਸਤਰ ਨੂੰ ਦਰਸਾਉਂਦਾ ਹੋਇਆ ਚਿੱਤਰ ਬਣਾਓ ਅਤੇ ਪੰਜਾਹ ਸ਼ਬਦਾਂ ਵਿੱਚ ਵਰਨਣ ਕਰੋ।

* 'ਗਿੱਲਾ ਕੂੜਾ', ਸੁੱਕਾ ਕੂੜਾ' ਵਿਸ਼ੇ ਤੇ ਤਸਵੀਰ ਬਣਾ ਕੇ ਉਸ ਬਾਰੇ ਆਪਣੇ ਵਿਚਾਰ ਪ੍ਰਗਟ ਕਰੋ।

SUBJECT - MATHEMATICS

• WORKSHEET

1. The product of HCF and LCM of two numbers is 24. The difference of the two numbers is 2. Find the numbers.
2. On a morning walk, three persons step off together and their steps measure 40cm, 42cm and 45cm respectively. What is the minimum distance each should walk so that each can cover the same distance in complete steps?
3. Prove that $\sqrt{2} + \sqrt{5}$ is irrational.
4. The length, breadth and height of a room are 8m25cm, 6m75cm and 4m50cm respectively. Determine the longest rod which can measure the three dimensions of the room exactly.
5. If α and β are the zeroes of the quadratic polynomial $p(x) = ax^2 + bx + c$, then evaluate
1) $\alpha^2 \beta + \alpha \beta^2$ 2) $\frac{1}{\alpha} + \frac{1}{\beta} - 2 \alpha \beta$
6. The zeroes of the quadratic polynomial $x^2 + 4x + k$ are α and β . Find the value of k if $5\alpha + 2\beta = 1$
7. The zeroes of the polynomial $p(x) = 9x^2 - 18x + 8$ are α and β . Find a quadratic polynomial having zeroes $\frac{\alpha^2}{\beta}$ and $\frac{\beta^2}{\alpha}$
8. Find the values of a and b for which the following system of linear equations has infinite number of solutions
$$2x + 3y = 7$$
$$(a + b + 1)x + (a + 2b + 2)y = 4(a + b) + 1$$
9. The sum of a two digit number and the number obtained by interchanging its digit is 110. If 10 is subtracted from the first number, the new number is 4 more than 5 times the sum of digits in the first number. Find the first number.
10. Solve graphically the system of linear equations $4x - 3y + 4 = 0$ and $4x + 3y - 20 = 0$. Find the area of region bounded by these lines and x axis.

11. Solve $\frac{1}{a+b+x} = \frac{1}{a} + \frac{1}{b} + \frac{1}{x}$, $a + b \neq 0$

12. If the equation $(1 + m^2)x^2 + 2mcx + (c^2 - a^2)$ has equal roots, prove that $c^2 = a^2(1 + m^2)$

13. One fourth of a herd of camels was seen in the forest. Twice the square roots of the herd had gone to mountains and remaining 15 camels were seen on the bank of a river. Find the total number of herds.
14. An AP consists of 21 terms. The sum of three terms in the middle is 129 and of the last three terms is 237. Find the AP.
15. Divide 56 into four parts in AP such that the ratio of the product of their extremes to the product of means is 5 : 6.
16. How many terms of the AP -15, -13, -11... are needed to make the sum -55? Explain the reason for double answer.
17. A thief runs with a uniform speed of 100m/minute. After 1 minute, a policeman runs after the thief to catch him. He goes with a speed of 100m/minute in the first minute and increases his speed by 10m/minute every succeeding minute. After how many minutes the policeman will catch the thief?
18. If the sum of first m terms of an AP is n and the sum of first n terms is m , then show that the sum of first $(m + n)$ terms is $-(m + n)$.
19. The sum of n terms of two APs are in the ratio $5n + 4 : 9n + 6$. Find the ratio of their 25th term.
20. Solve for x : $9x^2 - 9(a + b)x + (2a^2 + 5ab + 2b^2) = 0$

- **PROJECT :**

Make PPT based on history and use of quadratic equations for even Roll Numbers and chart depicting Rangoli designs and spiral based on AP for odd Roll Numbers.

- **LAB MANUAL ACTIVITIES**

SUBJECT – SOCIAL SCIENCE

1. Use A-4 size file paper (one side ruled)
2. Cover page must be designed by the student which should reflect the topic.
3. Project must be handwritten
4. The project work should not be of less than 7 pages (including the cover page)

1. PROJECT ON CONSUMER RIGHTS

1. Enlist Consumer Rights (Take help from chapter "Consumer Rights" (Economics))
2. Find out the system set up by our government for providing justice to the consumers
3. Prepare an advertisement for creating awareness among the consumers
4. Paste wrappers of at least 5 products containing detailed information which satisfy consumer rights

2. Subject Enrichment Activity:

1. Write a short note on Body Mass Index. (Definition, formula, importance)
 2. Collect data of height and weight of 10 people from different economic status and calculate their BMI.
 3. Find out if there is any relation between economic status and BMI.
3. Learning (Thorough chapter reading)
The Rise of Nationalism in Europe)
Money and credit

SUBJECT – SCIENCE

BIOLOGY-

1-Learn additional questions of RESPIRATION, TRANSPORTATION AND EXCRETION along with diagrams.

2-Draw neat and labelled diagrams of HUMAN BRAIN, REFLEX ARC, NEURON, BINARY FISSION IN AMOEBA, BUDDING, SECTION OF FLOWER, HUMAN MALE AND FEMALE REPRODUCTIVE SYSTEM from NCERT in your fair notebooks

PHYSICS-

1-Solve any 20 numericals based on mirror and lens -(10 numericals on mirrors and 10 numericals on lens.

2-Practice ray diagram of lens and mirror for all positions given in NCERT.

CHEMISTRY-

1. Prepare a project on different types of chemical reactions, its characteristics, with examples of each type. (You can take pictures from internet)
2. Prepare a PPT on any one topic:
 - a) Different types of indicators
 - b) Application of oxidation in daily life
 - c) Acids and bases
 - d) Balancing of chemical reactions
 - e) Chemistry and its importance in life.
3. Write any 15 skeleton equations and balance them(in class notebook)
4. Revise all the syllabus till date. (Learn valencies, atomic numbers and atomic masses of first 20 elements)

Have Safe & Happy Holidays !