

**DAV PUBLIC SCHOOL,
SARABHA NAGAR EXTN,
LUDHIANA**



CBSE AFFILIATED

HOLIDAYS HOMEWORK

SESSION: 2018-19

CLASS: XI HUMANITIES



Message

Dear Parents

The most cherished time of the session is on its way to bring smile on children's face. Let's welcome to the treasured and rejuvenating summer break.

The concept of summer vacation has transformed the holiday period into a learning and fun-filled time for children. It provides a break from the academic schedule and a chance to adopt an innovative skill. There is plethora of options to choose from dance, art and craft to gardening, swimming, skating or karate classes; the choice is all yours. The summer break keeps the schedule a bit relaxing but it needs to be utilized judiciously. The scholastic and integrated, creative school activities and projects are designed to help in the holistic development of the child. The novel ideas to accomplish the task will certainly broaden their outlook.

The children should be guided to follow time schedule to get the optimum utility of summer break. They need to be given utmost care and protection at home. The quality time spent with kids will inculcate family ethics and affection in them. Instruct the child to be more vigilant while spending time in outdoor activities. Refrain from talking with the strangers and sharing personal details with them. Guide the children to adopt healthy eating habits. Lots of fresh fruits, juice and liquids will ward off the heating effect of the season. Take out some time for prayer, yoga and meditation as it is required for the purification of body and mind. The balance of accomplishing academic assignment and nurturing an innovative skill will surely make this summer vacation a memorable time for the children. The quality time and the tips to ensure the holistic personality development should be a constant parental concern as these moments make an indelible imprint on child's mind and soul.

May God protect my children from every evil and bless them with sound health, bundle of joyful moments. I hope to see them ever smiling after summer break.

Blessings and regards!

Dr. Satwant Kaur Bhullar

Principal

GENERAL INSTRUCTIONS

1. Holidays work must be done in a very neat and presentable manner.
2. The child will be assessed on the basis of handwriting, presentation, neatness, completion of all the given questions and indexing of the work.
3. Questions must be done in the given sequence.
4. Notebooks, Scrap files, drawing files should be covered properly.
5. Avoid cutting & over writing.
6. Mention date and day before starting day's work.
7. Assignments attempted by parents will not be evaluated.

SCHEDULE OF SUBMISSION OF HOMEWORK IS AS FOLLOWS

- English, Maths, Punjabi & Art – 16 July 2018
- Hindi, Social Science & Science – 17 July 2018
- Late submission shall not be accepted.
- Creative work must be done beautifully.

Dear Students

Two months of the new academic year have already passed and we are looking forward to the summer vacation with a lot of excitement. Summer vacation is both a time for relaxation as well as a perfect interval to analyze one's performance and take measures for improvements. It is therefore imperative to spend the holidays in a planned manner. Here are some suggestions, which we feel would make your vacation more rewarding.

1. Get up before sunrise and watch the various shades of the sky as the sun comes up. Take a brisk morning walk and listen to the melodious chirping of birds. Spend some time doing yoga and meditation and other exercises to remain fit and fresh.
2. Summer activities like reading and Diary/journal writing can help you explore your creativity and enhance your vocabulary. Keep a journal about your activities, memorable experiences, funny anecdotes, progress made in rectifying problem areas etc.
3. Develop a new skill, be it learning simple stitching or making a few healthy snacks.
4. Watch interesting documentaries, read magazines and solve crossword puzzles etc.
5. Spend quality time with your parents/elders.
6. Take a break from social networking and talk to your elders about their experiences during the summer vacation when they were in school and help out with household chores.
7. Write a letter to your parents, sharing your deepest feelings with them that are often left unsaid in the commotion of your daily routine and submit the same to your Class Incharge.
8. Revise and practice all the work done before the vacation as you would be appearing for your Half Yearly Exams shortly after the vacations.
9. Under **parental supervision**, students can make use of apps like Word Search, 4 Pics One Word, Word Cookies, IEO etc. to enhance their vocabulary.

I hope these suggestions will help you to spend your vacation in a fruitful and interesting manner. I hope that everyone has a very refreshing and creative summer vacation. I look forward to see all of you again in July, ardent and eager to learn.

Warm wishes

Dr. Mrs. Satwant Kaur Bhullar

Principal

WE WISH ALL OUR STUDENTS GOOD HEALTH

&

HAPPY HOLIDAYS!!!

Summer Holidays' Home Work
(SESSION – 2018-19)
CLASS-XI Commerce

Subject: Economics

1. Project Work: Students are supposed to prepare a project report on statistical methods relating to:

- (a) Collection of Data
- (b) Classification of Data
- (c) Presentation of Data
- (d) Analysis of Data
- (e) Interpretation of Data

Students may opt **any** of the following topics:

- (a) Consumer Awareness among Households
- (b) Demographic Structure of a Neighbourhood
- (c) Changing prices of any product
- (d) Study of a Cooperative institution

Subject: Business Studies

Case Studies based on the topics covered in the class.

Subject: English

Reading Comprehension /Poem

Worksheets 1,2,3,15,16,17

Classified Advertisement

Page no 184

Questions 1,2,4,5,6

Notice

Worksheet34 Page 119

Letter to the Editor

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Questions 8,9,11,12

Applications (Page 324)

Question 9,10,14

Subject: Business Studies

1	“Business activities are undertaken under conditions of uncertainty.” Which characteristic of business is highlighted in this statement?
2	Chhavi cooks food at home for her family but Shelly cooks food and sell it to others in a restaurant. Who is engaged in business activity?
3.	Name the type of economic activity wherein a doctor operates his clinic.
4	Name the type of manufacturing industry wherein two or more ingredients are combined into one product.
5.	Ajay was appointed a marketing head of ‘Alpha Enterprise’ which manufactures tooth pastes and tooth brushes. His target sale was 2000 units a month. Apart from thinking about various channels of distribution to achieve the target, He himself started visiting schools in backward areas. He found that even after taking various steps and counseling, some school children had not started brushing their teeth. He investigated and found that they could not afford to buy toothbrush and toothpaste. So, with due permission, he started donating 200 toothbrushes and toothpastes every month to the school. State the values which Ajay wants to communicate the society.
6	Compare the business with profession and employment on the basis of a) Mode of establishment. b) Nature of work. c) Qualification d) Motive e) Transfer of Interest f) Code of conduct
7	Name the partner who shares in profits only.
8	“Working for oneself provides mental satisfaction.” Which merit of sole proprietorship is highlighted in this statement?
9	Shikha is a sole proprietor. Over the past decade, her business has grown from operating a neighbourhood corner shop selling accessories such as artificial jewellery, bags, hair clips and nail polish to a retail chain with three branches in the city. Although she looks after the varied functions in all the branches she wonders whether she should form a company to better manage the business. She also has plans to open branches country wide. a) Explain two benefits of remaining a sole proprietor. b) Explain two benefits of converting into a joint stock company. c) What role will her decision to go nationwide play in her choice of form of organisation? d) What legal formalities will she have to undergo to operate business as a company?
10	The business assets of an organisation amount to Rs. 50,000/- but the debts that remain unpaid are Rs. 80,000/-. What course of action can the creditors take if a) The organisation is a sole proprietorship firm. b) The organisation is a partnership firm with Anthony and Akbar as partner who share profits and losses equally. Which of the two partners can the creditors approach for repayment of debt? Explain giving reasons.
11	On the death of his father who was a partner in firm along with two active partners, Imandar joined the firm as minor partner. On becoming major he started taking part in management of firm. On his close observation, he found that the firm was having the following practices:

	<p>a) Overbilling the invoices and taking refunds from the buyers of goods over billed amount in cash without any entry in the books of firm.</p> <p>b) Tempering with electricity meter in connivance with employees of electricity board.</p> <p>c) Excessively high salaries paid to active partners.</p> <p>Identify the values disturbed by the above practices and their effect on the firm.</p>
12	<p>Rajiv wants to start a wholesale business of readymade garments, but he is hesitating as it involves various problems such as customs of moving goods from place of production to market, informing customers about new designs and varieties added every season, threat of risk loss by fire or accident, storing the excess stock of goods etc.</p> <p>He approaches his friend Sandeep who explains him about some branches of commerce, which can help Rajiv to overcome his hesitation</p> <p>a) State the type of business Rajiv is planning to start.</p> <p>b) State which dimension of business can help Rajiv to overcome these hindrances.</p> <p>c) Specify different types of auxiliaries to trade which can help Rajiv to overcome his problem. Quote the lines for each type of the above Para.</p>
13	Explain the procedure for formation of a company.
14	What is meant by social responsibility of business?
15.	That a company must take decisions and actions that will help to increase in market value of shares is an example of its responsibility towards which group?
16	A company has set ethics of very high standard. Every employee has to follow this standard of ethics in conducting business deals. If any business deal involves compromise with ethical standards, it should not be done even if the deal may be quite valuable to the company. Identify the values involved in practice of the company and their effects.
17	“The businessmen are responsible for aggravating pollution, so it becomes the moral duty of the businessmen to take some positive steps for controlling this problem.” In the light of this statement, explain the role of businessmen in checking pollution.
18	“An industrial unit discharges toxic gases from its chemical plant”. Mention the type of pollution created by the unit.
19	During early years of introduction of penicillin (A life saving drug), companies concerned were making abnormally huge profits because of its short supply. Perturbed by this phenomenon, a prominent scientist of Immunology stole the formula of penicillin from one company and supplied it free of cost to another company involved in drug manufacturing but not manufacturing penicillin with advice how the formula could be adopted. This company used the formula and started manufacturing penicillin in large quantity. As a result penicillin prices dropped considerably and consumers benefitted. Is the behaviour of the scientist ethical or unethical and why?
20	Explain briefly the social responsibility of business towards different interest groups.

XI – MATHEMATICS (Only those who have Additional Subject)

- If A and B are any two sets then prove that :
 (i) $(A \cup B)' = A' \cap B'$ (ii) $(A \cap B)' = A' \cup B'$
- For any two sets A and B , prove that $A \cup B = A \cap B$ iff $A = B$.
- Let A,B and C be the sets such that $A \cup B = A \cup C$ and $A \cap B = A \cap C$. Show that $B = C$.
- For any two sets A and B , prove that if $P(A) = P(B)$ then $A = B$
- For any two sets A and B prove that : $P(A \cap B) = P(A) \cap P(B)$.
- Let A ,B and C be three sets such that $A \cup B = C$ and $A \cap B = \phi$ then, prove that $A = C - B$.
- In a town of 10,000 families it was found that 40% families buy newspaper A , 20% families newspaper B and 10% families buy newspaper C . 5% families buy newspaper A and B , 3 % buy B and C and 4% buy A and C. If 2% families buy all the three newspapers find the number of families which buy :
 (i) A only (ii) B only (iii) none of A,B and C
- In a class of 35 students , 17 have taken Mathematics , 10 have taken Mathematics but not Economics. Find the number of students who have taken both Mathematics and Economics and the number of students who have taken Economics but not Mathematics ,if it is given that each student has taken either Mathematics or Economics or both.
- Find the domain and range of the function $f(x)$ given by $f(x) = \frac{x-2}{3-x}$.
- Find the domain and range of the following functions:
 (i) $f(x) = \frac{1}{\sqrt{x-5}}$ (ii) $f(x) = \sqrt{16-x^2}$ (iii) $f(x) = \frac{x}{1+x^2}$ (iv) $f(x) = \frac{3}{2-x^2}$
- Find the domain and range of the function : $f(x) = \frac{x^2-9}{x-3}$.
- Find the domain and range of the real valued function $f(x) = \frac{4-x}{x-4}$.
- Find the domain and range of the following real valued functions:
 (i) $f(x) = \frac{ax+b}{bx-a}$ (ii) $f(x) = \sqrt{x-1}$ (iii) $f(x) = |x-1|$ (iv) $f(x) = x - [x]$
- Let f and g be real functions defined by $f(x) = \sqrt{x+2}$ and $g(x) = \sqrt{4-x^2}$ then find:
 (i) $f+g$ (ii) $f-g$ (iii) $f \cdot g$ (iv) f/g (v) ff
- Prove that: $\cos 20^\circ \cos 40^\circ \cos 60^\circ \cos 80^\circ = \frac{1}{16}$.
- Prove that: $\sin 10^\circ \sin 30^\circ \sin 50^\circ \sin 70^\circ = \frac{1}{16}$.
- Prove that: $\sin 20^\circ \sin 40^\circ \sin 60^\circ \sin 80^\circ = \frac{3}{16}$.
- Prove that: $2 \cos \frac{\pi}{13} \cos \frac{9\pi}{13} + \cos \frac{3\pi}{13} + \cos \frac{5\pi}{13} = 0$.
- Prove that: $\frac{\cos 2A \cos 3A - \cos 2A \cos 7A + \cos A \cos 10A}{\sin 4A \sin 3A - \sin 2A \sin 5A + \sin 4A \sin 7A} = \cot 6A \cot 5A$.
- Prove that: $\frac{\sin(A-C) + 2 \sin A + \sin(A+C)}{\sin(B-C) + 2 \sin B + \sin(B+C)} = \frac{\sin A}{\sin B}$.
- If three angles A ,B and C are in A.P, then prove that: $\cot B = \frac{\sin A - \sin C}{\cos C - \cos A}$.
- Prove that: $(\cos x + \cos y)^2 + (\sin x - \sin y)^2 = 4 \cos^2 \left(\frac{x+y}{2} \right)$.
- Solve : $\sin 3x + \cos 2x = 0$.
- Solve: $\sin 2x + \sin 4x + \sin 6x = 0$.
- Solve : $7 \cos^2 x + 3 \sin^2 x = 4$.
- Using Principle of Mathematical Induction, prove that $(2^{3n}-1)$ is divisible by 7 for all $n \in \mathbb{N}$.
- Using Principle of Mathematical Induction prove that $7^n - 3^n$ is divisible by 4 for all $n \in \mathbb{N}$.

28. Using Principle of Mathematical Induction , prove that : $10^n + 3 \cdot 4^{n+2} + 5$ is divisible by 9 for all $n \in \mathbb{N}$.

29. Using principle of Mathematical Induction , prove that:

$$1 \cdot 3 + 2 \cdot 4 + 3 \cdot 5 + \dots + n(n+1) = \frac{n(n+1)(2n+7)}{6}.$$

30. Prove that : $\frac{\sin(B-C)}{\cos B \cos C} + \frac{\sin(C-A)}{\cos C \cos A} + \frac{\sin(A-B)}{\cos A \cos B} = 0$.

31. Express the following functions as sets of ordered pairs and determine their ranges:

(i) $f: A \rightarrow \mathbb{R}, f(x) = x^2 + 1$ where $A = \{-1, 0, 2, 4\}$

(ii) $g: A \rightarrow \mathbb{N}, g(x) = 2x$ where $A = \{x: x \in \mathbb{N}, x \leq 10\}$.

32. If $f(x) = \frac{1}{1-x}$, show that $f(f(f(x))) = x$.

33. Let $A = \{1, 2, 3, 4, \dots, 14\}$. Define a relation on a set A by

$$R = \{(x, y) : 3x - y = 0, \text{ where } x, y \in A\}$$

Depict this relationship using arrow diagram. Write down its domain, co-domain and range.

34. If $2 \tan B + \cot B = \tan A$, prove that $\cot B = 2 \tan(A - B)$.

35. If $A + B = \pi/4$, prove that: $(1 + \tan A)(1 + \tan B) = 2$.

36. If $\tan A - \tan B = x$ and $\cot B - \cot A = y$, prove that $\cot(A - B) = \frac{1}{x} + \frac{1}{y}$.

37. Prove that : $1 + \cos 2x + \cos 2x + \cos 4x + \cos 6x = 4 \cos x \cos 2x \cos 3x$

38. Prove that : $\frac{\sin A + \sin 3A + \sin 5A + \sin 7A}{\cos A + \cos 3A + \cos 5A + \cos 7A} = \tan 4A$.

39. Prove that : $\cos^2 A + \cos^2 \left(A + \frac{2\pi}{3}\right) + \cos^2 \left(A - \frac{2\pi}{3}\right) = \frac{3}{2}$.

40. In any triangle ABC, prove that :

$$\frac{a \sin(B-C)}{b^2 - c^2} = \frac{b \sin(C-A)}{c^2 - a^2} = \frac{c \sin(A-B)}{a^2 - b^2}$$

PUNJABI

Collect some Punjabi poem on DRUG ADDICTION and YOUTH

Revision of previous Lessons

Psychology

Define stress and prepare a PPT on stress Treatment

What do you mean by Multiple personality Disorder. Choose One movie on particular Disorder and collect information regarding that.

Sociology

Do project work on any of the following topic:

1. Society and Social Evils
2. Unemployment
3. Changing Family Pattern
4. Generational Differences
5. Stratification in society

